Laboratory Guide 2025

THE DOCTORS LABORATORY

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The TDL Laboratory Guide Is designed to give you an easy-to-use reference for the most regularly requested services, pathology profiles and tests. If you are not able to find details of the tests and services you need, please contact the laboratory on **020 7307 7373** for advice and information.

For details about all services, please contact the laboratory on **020 7307 7373**, or visit **www.tdlpathology.com**

TDL services include:

- Comprehensive, multidisciplinary pathology services
- Specialist diagnostic analysis for other laboratories
- Pathology partnerships with NHS Trusts
- Support for CRO and pharmaceutical companies

Sonic Healthcare core values

Sonic Healthcare's core values were created by our staff more than 20 years ago, and act as guiding principles for how we conduct ourselves as an organisation.

Our core values set the standard for the collegiate and supportive way in which we behave towards one another, as well as the professionalism with which we conduct ourselves in our day-to-day duties. Individually, our core values articulate our commitment to medical excellence. Collectively, they empower our people to deliver exceptional medical services to doctors and patients.

Since their inception, Sonic Healthcare's core values have been embraced by Sonic Healthcare staff around the world as a unifying code of conduct.

Commit to service excellence

- To willingly serve all those with whom we deal, with unsurpassed excellence.

Treat each other with respect and honesty

- To grow a workplace where trust, team spirit and equity are an integral part of everything we do.

Demonstrate responsibility and accountability

- To set an example, to take ownership of each situation to the best of our ability and to seek help when needed.

Be enthusiastic about continuous improvement

- To never be complacent, to recognise limitations and opportunities for ourselves and processes and to learn through these.

Maintain confidentiality

- To keep all information pertaining to patients, as well as professional and commercial issues, in strict confidence.

Complaints policy/procedure

It is the aim of the company to maintain its core values. Two of these core values are to commit to service excellence, and to be enthusiastic about continuous improvement.

Where a doctor or patient needs to raise a complaint about service levels they should contact **Cyril Taylor**, Laboratory Service Compliance Director, or **Annette Wilkinson**, Director of Business Development and Service at **tdlservice@tdlpathology.com** giving details of the complaint.

The initial complaint will be acknowledged within 3 working days and the investigation, and any follow up actions will be completed within 30 days.

The information forwarded will be treated as confidential and investigated by the above persons. This process will link into Quality Management procedure for incident investigation and subsequent corrective and preventative actions will be introduced where needed.

Internally, any complaints received will be shared and discussed at Executive Director level where appropriate, as it is the intention of TDL to provide unsurpassed excellence of service.

Helpful information

The Doctors Laboratory
The Halo Building, 1 Mabledon Place
London, WC1H 9AX, UK

Tel: +44 (0)20 7307 7373 – 24 hour telephone (Main switchboard/All services)

Email: tdl@tdlpathology.com

Laboratory times: 24 hours

Samples can be delivered at any time to this location.

Patients' samples cannot be taken at The Halo Building. This service is undertaken at 76 Wimpole Street, London W1G 9RT

SCAN ME

To download a location map or to get directions visit:

www.tdlpathology.com/about-us/locations/

TDL Manchester
Regents Place, 4 Windsor Street
Salford, M5 4HB, UK

Tel: +44 (0)161 332 7181

Email: tdlmanchester@tdlpathology.com

Laboratory times: 24 hours

Samples can be delivered at any time to this location.

Patients' samples cannot be taken at TDL Manchester.

TDL Manchester Couriers
Direct Tel: +44 (0)161 332 7187
Email: couriersman@tdlpathology.com

Patient Reception/ Phlebotomy Services

Patient Reception provides a sample collection service for patients attending at the request of their doctor/clinic.

Patients, of all ages, are welcome to attend Patient Reception, 76 Wimpole Street, London W1G 9RT for their samples to be taken. Patients need to be referred by their clinic or doctor and are required to bring a request form or letter of referral.

Appointments are only necessary if a patient needs specialised investigations or care. Instructions can be telephoned or emailed ahead of the patient's attendance, if this is more convenient.

Sample-taking is undertaken by qualified phlebotomy staff for which a standard sample-taking fee of £60.00 is charged to patients. Doctors and clinics are charged £35.00 for each patient. Sample-taking services for Extended Tests and Drugs of Abuse with Chain of Custody, and semen analysis are routinely available.

Cervical cytology, HVS and cervical swabs are not taken at Patient Reception.

Patient Reception sample-taking services are not available in Manchester.

TDL Patient Reception
76 Wimpole Street,
London, W1G 9RT, UK

Tel: +44 (0)20 7307 7383

Email: patientreception@tdlpathology.com

Out of hours samples can be dropped off at this location. **Phlebotomy Services are only available at this location**. Patients' samples cannot be taken at the main laboratory.

Opening times

Monday to Friday 7.00am – 7.00pm

Saturday 7.00am – 1.00pm

Closed Sunday and public holidays.

SCAN ME

To download a location map or to get directions visit:

www.tdlpathology.com/patients/patient-reception/

TDL Collect: specimen collection services by courier

TDL Collect provides a dedicated medical sample collection service (vans by arrangement) on a scheduled or ad hoc basis.

No charge is made for collections from practices within the M25. Courier collections from private addresses are not undertaken.

The courier collection service for Inner London postcodes operates on a 24/7 basis, as shown. Postcodes extending beyond to the M25 operate from 9.00am to 8.00pm. Outside the M25, and throughout the UK, sample collections are by arrangement and may incur courier charges.

TDL Collect Online Courier Booking is a time-saving option for arranging couriers for sample collection: **www.tdlpathology.com/services/tdl-collect/**

Please contact **couriers@tdlpathology.com** for your practice's secure login and password.

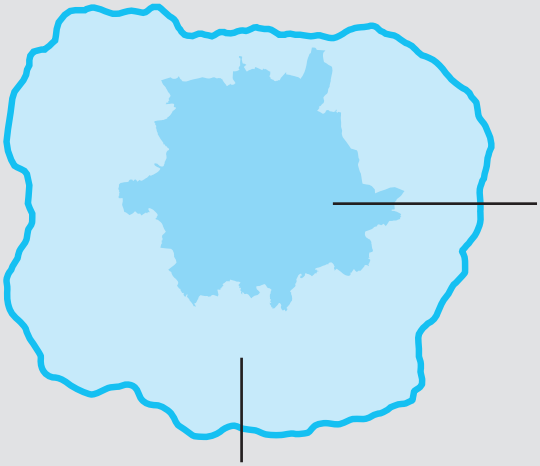
High-risk samples should be clearly labelled and packed separately from other samples.

TDL's couriers cannot transport samples containing Hazard Group 4 Pathogens such as Ebola Fever or Haemorrhagic Fever.

SCAN ME

Use the TDL Collect Online Courier Booking service to arrange a courier for sample collection:

www.tdlpathology.com/services/tdl-collect/



Courier collection from postcodes extending beyond Inner London to within the M25 operate from 9.00am to 8.00pm

Courier collection from Inner London postcodes (see below) operates 24/7:

E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E20

EC1, EC2, EC3, EC4

N1, N2, N3, N4, N5, N6, N7, N8, N9, N10, N11, N12, N13, N14, N15, N16, N17, N18, N19, N20, N21, N22

NW1, NW2, NW3, NW4, NW5, NW6, NW7, NW8, NW9, NW10, NW11

SE1, SE2, SE3, SE4, SE5, SE6, SE7, SE8, SE9, SE10, SE11, SE12, SE13, SE14, SE15, SE16, SE17, SE18, SE19, SE20, SE21, SE22, SE23, SE24, SE25, SE26, SE27, SE28

SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11, SW12, SW13, SW14, SW15, SW16, SW17, SW18, SW19, SW20

W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13, W14

WC1, WC2

Semen Analysis

Semen samples need specialist and immediate handling within the laboratory. For this reason, all requests for Semen Analysis must be made by appointment. Practices or patients can make an online appointment at **www.tdlpathology.com/andrologybooking** or call **020 7025 7940** to make appointments and confirm instructions for sample collection. There is an attendance fee of £50.00.

- Patients must abstain from ejaculation for at least 2 days but not longer than 5 days before the test. Instructions will be given to patients at the time of arranging their appointment.
- Semen samples should be produced at The Doctors Laboratory, 76 Wimpole Street, unless there are exceptional circumstances. If there are exceptional circumstances please contact **TDL Andrology** on **020 7025 7940** for special arrangements and instructions. Refer to Andrology, see page 67.

Semen Analysis services are not provided in Manchester.

SCAN ME

To make an appointment for Semen Analysis online please visit:

www.tdlpathology.com/andrologybooking

Patient request form

To comply with good clinical practice it is important that there is one request form for each patient's request, and specimens and form are correctly matched, fully labelled, and include three unique patient identifiers and other relevant Information.

- First name, Surname, Date of birth, Hospital/Clinic Number, Medical Record Number (MRN) are examples of patient identifiers
- Time and Date of collection of samples
- Type of sample and Anatomical site, where appropriate (e.g. swabs)
- Relevant clinical information
- Relevant details of medication
- High-Risk Samples should be clearly identified on the form and individually packed separately from other samples
- Known cases of Hazard Group 4 pathogens such as Ebola or Viral Haemorrhagic Fever must NOT be sent to the laboratory. If there is doubt about a patient's symptoms and presentation please contact the Imported Fever Service on 0844 778 8990 for advice before sending samples to TDL or any laboratory.

If additional tests are required for a sample already received please contact the laboratory on **020 7307 7373** with your request for specific further analysis. Samples are stored within timeframes according to their discipline. Laboratory staff will advise on the ability to undertake further testing from samples already received in the laboratory.

SCAN ME

Download TDL Request Forms from:

www.tdlpathology.com/tests/request-forms/

Emailed requests for add ons

The majority of samples received in the laboratory are kept for one week. If sample type and volume allow, further testing can be requested by telephone on **020 7307 7373** or by email to **addons@tdlpathology.com**. Please specify the details of the test(s) to be added.

If requests for **Add ons** are made by email, the **patient's details** and **Laboratory Number** need to be referenced.

Home visits

This service is available for patients who, for whatever reason, prefer samples to be taken at home or at locations other than a doctor's practice or TDL's Patient Reception at 76 Wimpole Street, London. This is a service that is used regularly to save time for both doctors and patients, and ensures that results can be made available before consultation is undertaken.

There is a visit fee from £150.00 to patients within the M25, and from £250.00 for children when two nurses need to attend. Home visits outside the M25, for weekends, bank holidays and night fees are by special arrangement. To arrange a home visit please telephone Patient Reception on **020 7307 7383** or email **homevisits@tdlpathology.com**.

Sample packing

Samples need to be packed and transported appropriately for subsequent processing and testing. Transport systems will be various and cover both long and short distances.

Samples need to be collected and packed into appropriate sample containers provided by the laboratory in order to maintain integrity. Attention needs to be given to temperature, special transport containers and time limitations. Each testing has a different sample requirement, which should be referenced prior to sample taking.

Clinics, practices and laboratories who are posting or transporting samples by air, sea, rail and road between local, regional and reference laboratories, or between laboratories in other countries, must adhere to a number of regulations. These regulations are designed to deal with transportation accidents and spills, reduce biohazards and keep samples intact for testing.

Regulations are given by several sources including:

- National transport regulations
- International air transport regulations
- Rail and road traffic agencies
- Postal services

Compliance is mandatory in order to reduce risk to couriers, carrier, laboratory staff and passengers.

Sample transport requirements are based on the category of samples being transported. Infectious substances are classified as Category A (for example a substance that causes viral haemorrhagic fevers) or Category B.

TDL does not arrange for transport of Category A samples (infectious substances capable of causing permanent disability or life-threatening or fatal disease to humans or animals).

Instruction and packaging for Category B is provided, covering Biological Substances, UN3373.

Packaging requirements

There are specific labelling and triple packaging requirements for Category B samples such that it meets packaging instruction P650:

- Primary receptacle – tube or vial containing the sample which is placed in the secondary packaging.
- Secondary packaging – for example, a protective packaging case or ziplock bag with absorbent material.
- The outer packaging – intended to protect the entire contents.

Helpful information

- There may also be additional postal envelopes to place the entire package in for postal return. The external surface of the package must be labelled with UN3373 and clearly state BIOLOGICAL SUBSTANCE CATEGORY B.

There are additional packaging requirements for frozen samples requiring shipment using BioFreeze bottles or Dry Ice.

For information please contact the Referrals Dept (**ReferralsOffice@tdlpathology.com**).

Postal pathology

Postal pathology services should be considered by all practices in the UK who need a rapid delivery service to the laboratory as it is a quick and efficient method of sample return, which causes little to no disruption to the patient. Royal Mail require that ALL pathology postal packs are sent using Tracked 24 returns. This provides a particularly suitable method of transport for any healthcare organisation. Royal Mail postal pathology with Tracked 24 returns provides:

- Simple and convenient sample handling throughout the UK for most tests. It is not suitable for samples that need to be received within 24 hours of sample taking (e.g. coagulation, Quantiferon TBQ).
- Scope for large and small numbers of samples.
- Next morning delivery.
- Allows patients and practices to track samples to the Distribution Office through the Royal Mail system.
- Samples can be posted from any Royal Mail post box.
- There is a charge of £3.74 for each Royal Mail Tracked 24 pack. This charge will be itemised in monthly invoices to the practice or patient, as requested.

TDL website

The TDL website gives updated details of our tests – sample types, turnaround times and special instructions. The Specialities section provides a new way to find tests you need, and a Services section has additional information for TDL Collect, Postal Pathology and TestGuide app. Reference Ranges can be requested by emailing **refranges@tdlpathology.com**. Full details of our tests and profiles are also available in the TDL TestGuide app.

Visit the TDL website at:

www.tdlpathology.com

SCAN ME

DX System

DX is a well known next-day courier of Category B specimens – transporting biological samples in compliance with the industry's highest regulations. DX is compliant to IATA regulations, is audited independently by Dangerous Goods Safety Advisors. They work with a combination of large health organisations and smaller, independent laboratories to ensure the safe delivery of specimens every year.

TDL's DX Address is **DX 340201, St Pancras 90 WC**.

Pathology consumables / Request Forms / Postal packs

TDL Supplies Department provides all appropriate sample collection consumables required for sample collection. Orders will be dispatched on the same or next day and can be made by email to **supplies@tdlpathology.com**. A Supplies Order Form is available from the TDL website.

SCAN ME

Download TDL Request Forms from:

www.tdlpathology.com/tests/request-forms/

Requesting and reporting options

We continually review and update our IT Services for receiving requests and reporting results electronically between practices and the laboratory. A number of innovative report formats are now available.

Encrypted Email

Results will be sent in encrypted format to any number of predetermined email addresses. Copy reports will be emailed automatically to email addresses on the system.

Link to Practice Management System

Bidirectional requests and results can be received and delivered electronically using a number of integrated practice systems. Practice software that accepts data in an HL7 format can be linked to securely receive results from the laboratory.

Security of information in TDL systems and processes is managed by our Information Security Management System, which is certified to the latest International Standard for Information Security ISO/IEC 27001:2013.

TDL eViewPlus

Provides the most accurate requesting option for clinics who don't have a practice management system. As well as producing QR coded forms to accompany samples to the laboratory, registered users of this secure Login/Password protected system can request self-collection kits to be sent directly to their patients.

eViewPlus users can also view their results online, with cumulative reporting, anytime, anywhere.

For information about eViewPlus please contact **eviewplus@tdlpathology.com**.

Printed Copy

Printed results will only be sent, as standard, if requested.

Emailed results incorporating your logo

If a practice or company receives results by email, and would like these to be personalised with the practice's logo, please email your company details and logo in GIF format to **logo@tdlpathology.com**.

Fees for pathology

Fees can be paid directly by patients or by the practice, clinic or requesting organisation. A payment instruction clearly identifying to whom invoices need to be sent must be given with each patient's request.

Patients are normally invoiced within 7 days to the address provided by the patient or practice. Their pathology fees include a standard credit/ administration charge.

Receipts for insurance purposes are sent, if requested. Patients visiting Wimpole Street for sample-taking have the opportunity to settle their pathology fees at the time of their visit. A credit/ administration fee is raised if invoices are sent to patients. All normal credit, debit or charge cards are accepted and payment can be made by following the telephone payment instructions given with each invoice.

The Terms and Conditions of Business appearing on pages 222-231 of this Laboratory Guide shall apply to the services we provide to you, unless otherwise agreed.

Protection of personally identifiable information

The General Data Protection (GDPR) and UK Data Protection Act 2018 came in to force in 2018 and have had significant impact upon the way that personal data is managed; placing legal requirements upon data processors and controllers to manage that information securely, maintain records of the processing that is carried out, and report when breaches of the regulation do occur.

This has impacted the way many businesses operate, and is not restricted to the healthcare sector.

TDL TestGuide app

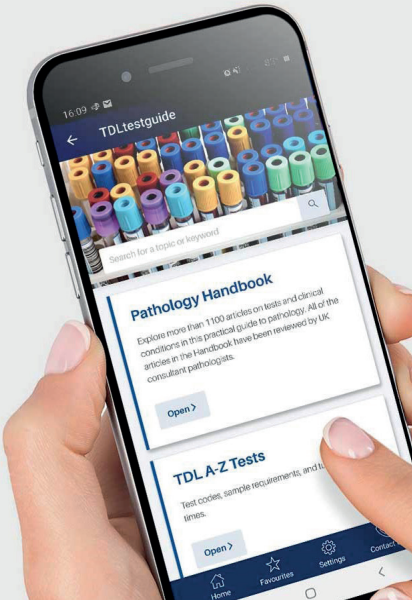
Available for iOS and Android, the TDL TestGuide app offers:

- Full details of TDL's tests and profiles
- The TDL Pathology Handbook, which provides information on more than 1000 pathology topics, reflecting our deep collective knowledge across all areas of pathology

The app can be downloaded from the Apple App Store or Google Play Store. To register for the app, you will just need your TDL Source Code and an email address.

Please contact **testguide@tdlpathology.com** if you need help with finding your Source Code.

Feedback for the TestGuide app is always welcome; please send suggestions and comments to **tdl@tdlpathology.com**.



Helpful information

At TDL, these requirements have been implemented within the context of a mature ISO 27001 Information Security Management System – the globally accepted standard by which information is secured.

This ensures that senior management have regular visibility of the threats to the confidentiality, availability and integrity of the information that we process, and are able to steer the efforts of their teams to provide an efficient service that places the confidentiality of our customers and their patients at the heart of everything we do.

In order to support our customers compliance with the regulation and as a part of a wider GDPR compliance project TDL has updated its standard terms and conditions to include revised data processing clauses, which are mandatory when providing personal data to another organisation.

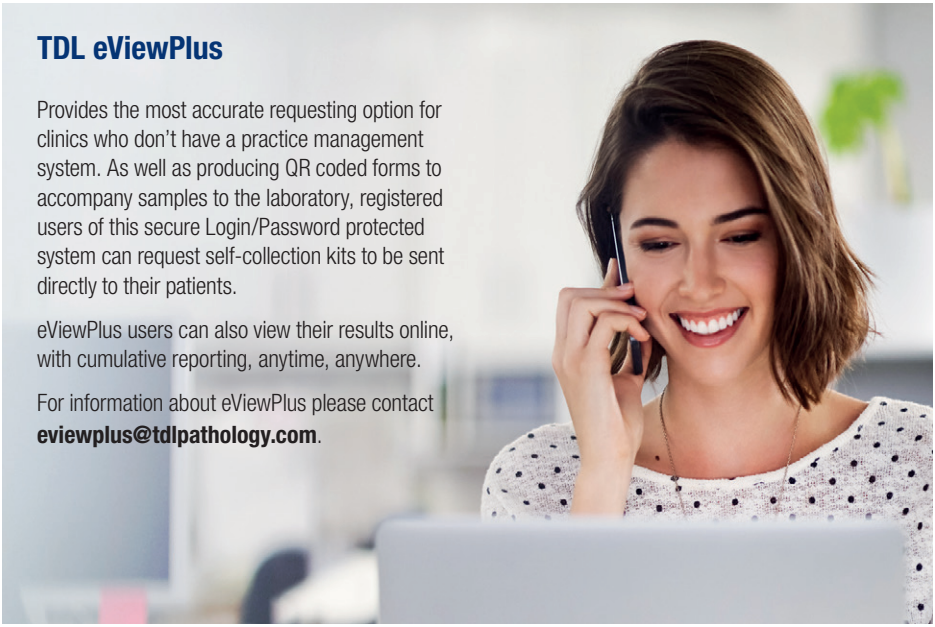
Customers can find out more about how TDL protects their data by reading the TDL Privacy Notice at www.tdlpathology.com/about-us/corporate-information/tdl-group-privacy-notice.

TDL eViewPlus

Provides the most accurate requesting option for clinics who don't have a practice management system. As well as producing QR coded forms to accompany samples to the laboratory, registered users of this secure Login/Password protected system can request self-collection kits to be sent directly to their patients.

eViewPlus users can also view their results online, with cumulative reporting, anytime, anywhere.

For information about eViewPlus please contact **eviewplus@tdlpathology.com**.



Key contacts

24 HOUR TELEPHONE (MAIN SWITCHBOARD / ALL SERVICES): 020 7307 7373

CEO
David Byrne
david.byrne@tdlpathology.com

Group Commercial Director
Brian Madden
brian.madden@tdlpathology.com

Chief Medical Officer
Dr Rachael Liebmann OBE
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Group Laboratory Director
Tim Herriman
tim.herriman@tdlpathology.com

Director of Sales / Service
Annette Wilkinson
annette.wilkinson@tdlpathology.com

Director of Genetics & Molecular Pathology
Dr Lisa Levett
lisa.levett@tdlpathology.com

Chief Information Officer (IT)
John Matthews
john.matthews@tdlpathology.com

Director of Group Laboratory Operations
Lisa Manze
lisa.manze@tdlpathology.com

Heads of Support Departments

Director of Laboratory Compliance
Cyril Taylor
Cyril.taylor@tdlpathology.com

Director of Governance
Emer Nestor
emer.nestor@tdlpathology.com

Credit Control Manager
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william.howard@tdlpathology.com

Logistics / Couriers
Steve Kettle
steve.kettle@tdlpathology.com

Patient Reception
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Becca.Gallagher@tdlpathology.com
patient.reception@tdlpathology.com

Call and Service Centre
Chris Tanalega
chris.tanalega@tdlpathology.com

IT Operations / Customer Service
Rochelle Fakhri
rochelle.fakhri@tdlpathology.com

Sample Reception
Amy Scott
amy.scott@tdlpathology.com

Referrals Department
Maulik Trivedi
maulik.trivedi@tdlpathology.com

Heads of Laboratory Departments (London)

Haem / Bio / Automated Pathology
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naina.chavda@hslpathology.com

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TDL Manchester

Operational Site Lead
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Deputy Site Lead
Andy Leeson
andy.leeson@tdlpathology.com

SRA and Kit Distribution Manager
Georgina Taylor
georgina.taylor@tdlpathology.com

Quality Manager
Carol Tonge
carol.tonge@tdlpathology.com

Courier Control
Marc Rennard
marc.rennard@tdlpathology.com

Quality assurance

The Doctors Laboratory is committed to providing doctors with pathology of the highest quality.

The quality of results is of fundamental importance, and the laboratory operates to stringent technical and administrative standards.

Internal quality assurance is achieved by strict adherence to standard operating procedures for all analytical processes. TDL participates in recognised National External Quality Assessment Schemes; these schemes are subscribed to by NHS and private laboratories. The United Kingdom Accreditation Service (UKAS) provides accreditation to the internationally recognised ISO 15189 Medical Laboratories: Requirements for Quality and Competence standard. Results are subjected to strict internal and external quality control.

Details of the laboratories to whom TDL refers specialist testing are available from TDL Referrals. These laboratories are UKAS accredited or of equal accreditation status.

Quality Assurance is administered by TDL's Quality Management Group (QMG), who also adhere to regulatory and accreditation requirements.

BIOCHEMISTRY

UKNEQAS, WEQAS, RIQAS, BIORAD, LABQuality for

ACE

AFP/CEA & HCG

Antibiotics (Gentamicin, Vancomycin and Amikacin)

Anti-Hbs Detection

Ammonia

Autoimmune (RF and TPO)

B2 Microglobulin

Cardiac Markers

Clinical Chemistry

CMV IgG/IgM

CRP & Ultra-Sensitive CRP

CSF

Cyclosporin and Tacrolimus

DEQAS

Diagnostic Serology Exanthem

Diagnostic Serology Hepatitis

Drugs of Abuse

Ethanol

Faecal Markers for Inflammation (Calprotectin)

Free Beta HCG and PAPP-A

GFR

Glucose/Glucometer

Glycated Haemoglobins

Guildford Peptides

Haematinics

Healthcontrol Therapeutic Drugs Screen (TDM)

Hepatitis A (with B and C)

Hepatitis B Serology

Hepatitis C Serology

HIV Serology

Homocysteine

HTLV

IGF-1

Infectious Immunology

Lipase

Lipid Investigations

NT-Pro BNP

Paediatric Bilirubins

Parasitology

Peptide Hormones

PSA, Free PSA

PTH, ACTH and hCT

QFIT

Rubella IgG Serology

Salicylate and Paracetamol

Specific Proteins

Steroid Hormones

Syphilis Serology

Thyroglobulin Surveys

Thyroid Hormones

Quality assurance

Total IgE
Tumour Markers
Toxoplasma IgM Serology
Toxoplasma IgG Serology
Trace Elements
Urine Chemistry
Vitamin D (25 OH)

HAEMATOLOGY

UKNEQAS

Automated Differential Leucocyte Count
Blood Film Morphology
Blood Transfusion Laboratory Practice Scheme (BTLP)
Coagulation (Including PoCT Coagulation)
EBV Mononucleosis
ESR and NRBC (nucleated Rbc)
Flow Cytometry
- Leukaemia immunophenotyping
- Myeloperoxidase
- Iron stain

Full Blood Count
Haematology
Haematology Analysis
Malaria
Parasite Films
Reticulocyte
Sickle Screening
Thrombophilia Screening

Special Coagulation

Anti-Xa assays
ADAMTS-13 activity
ADAMTS-13 antibody
Heparin / Platelet Factor 4 Induced Antibodies
Lupus anticoagulant:
- DRVVT assay
- Taipan Venom Time

Plasma viscosities
Platelet function analysis (RCPA)
Von Willebrand (vWD) screen

GENETICS AND MOLECULAR VIROLOGY

Molecular Genetics and Cytogenetics

GENQA, ISFG, EMON, UKNEQAS, ECAT, LABQuality for

Acquired array (CLL/MDS)
Acute Lymphoblastic Leukaemia (ALL) – G banding and FISH
BCR ABL1 and AML Translocation Identification
BCR ABL1 Kinase Domain Variant
BCR ABL1 Major Quantification
BCR ABL1 Minor Quantification
BoBs Rapid Aneuploidy detection
BRAF p.Val600Glu (V600E) Mutation Status for Hairy Cell Leukaemia
Chlamydia & Gonorrhoea detection by PCR
Chronic Lymphocytic Leukaemia (CLL)
Constitutional Clinical Cytogenetics (Rounds for Amniocentesis, CVS, Solid Tissue, Blood, Array CGH)
Cystic Fibrosis
Duchenne/Becker Muscular Dystrophy
FLT3 Mutation Status
Haematological Technical FISH
Hereditary Haemochromotosis (C282Y+H63D) genotyping + reporting
HLA Class I (HLA-A, HLA-B, HLA-C) Tissue Typing (low resolution)
HLA Class II (HLA-DRB1, HLA-DQB1) Tissue Typing (low resolution)
HLA-B27 Genotyping
HLA-B57*01 Genotyping
HLA+ Disease Typing Cytochrome P450 2C19 genotyping
Human Papillomavirus DNA
IG/TCR Clonality Status
IGHV for CLL

Quality assurance

Inborn Errors of Metabolism

JAK2 p.Val617Phe (V617F) Mutation Status

KIT p.Asp816Val (D816V) Mutation Status for Mast Cell Disease

Lymphoid Gene Panels

Lymphoma

Lymphoplasmacytic Lymphoma / Waldenstrom Macroglobulinaemia

Measurable Residual Disease for AML by Molecular Methods

Myeloid (AML/MDS/CML) – G-banding and FISH

Myeloid Gene Panels

Myeloma – sample FISH set up and analysis plus online

Myeloproliferative Neoplasms Diagnostic Testing

NGS AML gene panel

NGS Myeloid Target Panel

NIPT for aneuploidies and sexing

NMP1 Mutation Status

Paediatric Acute Leukaemia Translocations

Paternity Testing

Prader-Willi and Angelman Syndromes

QF-PCR Aneuploidy Detection

Sexually Transmitted Diseases (CT/NG/MGEN/TV/UU/UP)

Spinal Muscular Atrophy

Thrombophilia (Factor II, V, MTHFR)

TP53 for CLL

Y Microdeletion PCR Assay

Molecular Virology

QCMD, INSTAND for

Adenovirus DNA Viral load and Qualitative PCR

Bacterial 16S

B19 virus DNA Viral load

BK virus DNA Viral load

CMV DBS (dried blood spots)

CMV DNA Plasma Viral load

CMV DNA Whole Blood Viral load

CMV Resistance

EBV DNA Plasma Viral load

EBV DNA Whole Blood Viral load

Enterovirus RNA

Gastroenteritis Virus Panel

Hepatitis B Genotyping

Hepatitis B Drug Resistance Typing

Hepatitis B Viral Load

Hepatitis C Genotyping

Hepatitis C Resistance genome detection (NS5a & b)

Hepatitis C Resistance Typing (NS3 & NS5a)

Hepatitis C Viral Load

Hepatitis D Virus Viral load and Qualitative PCR

Hepatitis E Virus Viral load and Qualitative PCR

HIV-1 Drug Resistance (Pol)

HIV-1 Drug Resistance (Integrase)

HIV-1 RNA Viral load and Qualitative PCR

HIV-1 DNA Genome Detection

HIV-1 Tropism Genome Detection

HSV 1&2 DNA

HSV 1&2 DNA HSV Drug Resistance

HIV-2 Viral Load

Human Herpes virus 6 DNA

Human Herpes Virus 8 Viral load and Qualitative PCR

Influenza Haemagglutinin typing

JC Virus DNA

Measles and Mumps PCR

MERS Coronavirus

Parechovirus RNA

Respiratory panel I

Respiratory panel II

SARS-CoV-2 (COVID-19) PCR/NAAT

SARS-CoV-2 Variants of Concern (VOC) sequencing

Syphilis PCR

Transplantation Virus Panel

VZV DNA

Quality assurance

MICROBIOLOGY

Laboratory Quality Scheme

Aspergillus PCR

Blood culture and gram stain

Candida PCR

Helicobacter pylori antigen from faeces

Mycoplasma PCR

Polarising crystal microscopy from synovial fluid

Streptococcus pyogenes (Group A) detection in pharyngeal samples

Surveillance for multi drug resistant bacteria

UKNEQAS

Antifungal assays

Antifungal susceptibilities

Clostridium difficile detection and toxin testing

Cryptococcal antigen

Faecal parasites

Fungal culture

Fungal biomarkers

General bacteriology

Genital pathogens

MRSA screening

Microbial susceptibilities

Mycobacterial microscopy

Mycobacterial culture and molecular detection

Urinary antigen

WEQAS POCT

Urinalysis

QCMD

Atypical pneumoniae PCR

Dermatophyte PCR

PCP PCR

IMMUNOLOGY

UKNEQAS – General Immunology

Allergen Component Testing

Allergen Specific IgE Antibodies

Anti-Phospholipid Antibodies (B2GP)

Autoimmune Serology ANCA/GBM Antibodies

Bullous Dermatosis Antibodies

Coeliac Disease (Endomysium, Tissue transglutaminase)

Covid 19 Antibodies

Diabetic Marker (Islet Cell Antibodies)

Faecal Markers (Calprotectin)

General Autoimmune Serology

Hepatitis E (IgG and IgM)

IGRA (Interferon gamma release assay)

Intrinsic Factor Antibodies

Lyme (IgG + IgM)

Myositis Associated Antibodies

Nuclear and Related Antigens

Specific Microbial Antibodies

Syphilis (THPA and RPR)

Tryptase

UKNEQAS – Infectious Immunology

Anti-Hbs Detection

CMV IgG/IgM

Diagnostic Serology Hepatitis

Helicobacter pylori antigen from faeces

Hepatitis B Serology

Hepatitis C Serology

HIV Serology / POCT

HTLV

Measles and Mumps Serology

Parasite Serology

Parvovirus and Rubella Serology

Syphilis Serology

Toxoplasma IgM Serology

Toxoplasma IgG Serology

Quality assurance

RCPAQAP Scheme

Chlamydia Serology

Legionella (IgG) Serology

Striated Muscle Antibodies

INSTAND Scheme

Adrenal Antibodies

HDV Serology and Functional Complement

Hepatitis E Serology

CSCQ Scheme

Lyme Borrelia Serology

Laboratory Quality Scheme

Antistreptolysin O Titre

Cytomegalovirus Antibodies

EBV Serology

Euroimmun ifQ-Lubeck (Liver) Autoimmune Disease Scheme

Helicobacter Pylori IgG Antibodies

Herpes Simplex 1 & 2 Antibodies

Measles Serology

Mumps Serology

Mycoplasma Serology

RNA Polymerase III

VZV Serology

ENDOCRINOLOGY

UKNEQAS

AFP/CEA

Allergens Scheme

Peptide Schemes 1 to 4

Prostate Specific Antigen

PTH

SHBG

Specific IgE/Total IgE

Steroid Hormones

Thyroid Scheme

Tumour Markers

CERVICAL SCREENING

NHS England

Gynaecological Cytopathology EQA Scheme (GEQA)

National EQA Scheme for the Preparation and Staining of Cervical Liquid Based Cytology Samples (TEQA)

HOLOGIC EQA scheme for

ThinPrep Stain

UKNEQAS for Microbiology

Molecular Detection of HPV

DIAGNOSTIC CYTOLOGY

UKNEQAS for CPT

Stained Non-Gynaecological Cytology Module.

All non-gynaecological (diagnostic cytology), including Urine Cytology, are referred to a UKAS accredited laboratory for reporting.

ANDROLOGY

UKNEQAS

Semen Analysis Scheme

INFORMATION SECURITY

Accredited by British Standards Institute ISO/IEC 27001:2013

Links to the UKAS Schedules of Accreditation

HSL Blood Sciences (8169)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8169-Medical-Single.pdf

HSL Infection Sciences (8860)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8860-Medical-Single.pdf

HSL Molecular Pathology and Genetics (8059)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8059-Medical-Single.pdf

TDL Manchester (8812)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8812-Medical-Multiple.pdf

TDL Andrology (10199)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/10199-Medical-Single.pdf

HSL Cervical Screening (8511)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8511-Medical-Single.pdf

Measurement Uncertainty

Medical laboratories are responsible for ensuring that test results are fit for clinical application by defining analytical performance goals, selecting and qualifying appropriate measurement procedures. All measurement results have some inaccuracies due to analytical bias and imprecision; therefore a measurement result is an estimate at the time of undertaking such measurements. To properly use such results, medical laboratories and their clinical users need some knowledge of the accuracy of such estimates and the uncertainty it may have on the interpretation of patient results.

This estimate of such uncertainties is referred to as Measurement Uncertainty (MU) which incorporates the cumulative range of factors involved in the examination procedure, which may potentially influence the overall test result and thus the interpretation of patient results.

The complete result of a measurement is a value, a unit and an estimate of uncertainty.

Medical laboratories consider the impact of such uncertainties on the interpretation of patient results and ensure uncertainties are minimised through control measures such as standardised procedures, Internal Quality Control monitoring and trending and routine evaluation of MU. Evaluating measurement uncertainty is an ISO 15189:2022 accreditation requirement.

It should be noted that all assays within the TDL/HSL group of laboratories use standard operating procedures followed by trained and competency assessed scientists.

The MU is initially estimated for each assay during the qualification of the selected examination procedure and is evaluated against the pre-defined maximum allowable measurement uncertainty. Each MU is then re-estimated at regular intervals with additional data and reviewed against the pre-defined maximum allowable measurement uncertainty to ensure uncertainty values and therefore errors and inaccuracies are minimised.

Overall assay performance is also regularly monitored through internal quality control (IQC) and external quality assessment (EQA) schemes and incorporated in test result interpretation. MU for individual assays is available upon request.

Sample rejection criteria

Sometimes tests cannot be performed in the laboratory if samples fall short of the quality, volume or other eligibility criteria such as clear sample labelling. In these cases, the potential risk to the patient management is that the laboratory may need to reject the samples, and not carry out processing. Sometimes the laboratory can rectify a situation where a sample falls short of the sample acceptance criteria though in this case the risk to the patient management may be a breach of stated turnaround time and a delay to provision of the result. In order to reduce the risk of sample rejection or delay to provision of results, please ensure all sample taking criteria are met.

Summary list for sample rejection

- Incorrect sample types received:
  - Basic incorrect blood tube/other sample.
  - Samples without the appropriate preservative (e.g. acidified urine samples).
  - Samples that are received ambient, when a frozen sample is required.
  - Samples that are received unprotected from light, when they are required to be covered at the point of venepuncture.
- Samples in incorrect containers (e.g. cervical cytology must be a ThinPrep vial; urine cytology must be in a uricyte container).
- Insufficient sample received.
- No sample received.
- Labelling or form issues (mislabelled/unlabelled/no forms/no clinical information).
- Clotted/haemolysed/lipaemic/icteric samples.
- Sample is broken or has leaked in transit.
- Stability time has been exceeded. Stability time is test dependant, and also refers to tests that can only be carried out on certain days of the week.
- Sample contamination (e.g. being in the same bag as a leaking sample).
- Samples are high risk or infectious.
- Samples that are received in expired tubes.
- Discontinued tests.

Department specific

- Sample Reception will not accept samples packaged with needles of any kind.
- Haematology cannot accept frozen whole blood for testing.
- Coagulation cannot accept over or under filled samples for testing.
- Coagulation cannot accept previously frozen samples that have thawed in transit.
- Biochemistry cannot accept previously frozen samples that have thawed in transit.
- Biochemistry cannot accept samples that display antibody interference.
- Biochemistry cannot accept samples that have had separation delays/un-centrifuged samples that have been stored in the fridge.
- Biochemistry cannot accept paraprotein resulting in viscous samples.
- Biochemistry cannot accept CSF protein that is blood stained.
- Immunology cannot accept TBQ kits that:
  - Do not contain all of the appropriate tubes.
  - Are incubated for more than the specified 16 hours.
  - Have passed the incubation time period.
  - Are over or under filled.
- Microbiology cannot accept samples in non-sterile containers or in formalin.
- Referrals cannot accept samples without three points of identification for DRP testing.

Quality assurance

- Referrals cannot accept samples that are not labelled by hand for blood group testing.
- Molecular Pathology cannot accept samples for Haemophilia testing without informed consent.
- Cervical Cytology cannot accept over or under filled samples for testing.
- Cervical Cytology cannot accept samples received within three months of the previous test in order to allow epithelial cells to regenerate.
- Cervical Cytology cannot accept samples containing a sample broom.
- Cervical Cytology can only accept samples received in a Hologic ThinPrep Vial.
- Cervical cytology cannot accept samples received in an expired ThinPrep Vial.
- Urine cytology cannot accept delayed samples unless they have been refrigerated.

Samples deemed to be unrepeatable (e.g. CSF, fluid, tissue, bone marrow and paediatric samples) will not be discarded by the laboratory. Results will include a comment relating to the condition of the sample (e.g. sample unlabelled).

Consultant advice and opinion

Each department in the laboratory is consultant led. The TDL Consultants listed below have defined advice or professional support, TDL consultants can be contacted via the laboratory.

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Dr Colin Graham Fink
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Special instructions for samples

1 Contact the laboratory for special sample tubes/containers/instructions.

2 Confirmation of not negative drug screens by LCMS/MS may take up to 5 days.

3 Clinical history essential and protect from light.

4 Send to the laboratory same day.

5 Do not send sample to the laboratory between Friday noon and Monday morning.

6 Contact the Referrals Department before taking and sending sample to the laboratory.

7 Sample should be separated and frozen if sending overnight.

8 DRP Form required. DRP Form can be found at the back of the guide.

9 Clinical history must be provided.

10 Contact the laboratory for special stability tubes for lymphocyte subsets – or take an EDTA sample and ensure same day delivery to the laboratory, Monday to Friday noon (do not send sample between Friday noon and Monday morning).

11 Patient consent required. Consent Form can be found at the back of the guide.

12 Please provide one sample for each person being tested.

13 Protect from light.

14 Provide details of travel history.

15 Ammonia

Sample: EDTA plasma only. Full tubes and tightly stoppered. On ice, centrifuged and analysed 20-30 mins post venepuncture (or plasma can be frozen). If haemolysed gives falsely high results.

Patient: Fasting. Avoid smoking.

16 Lactate

Sample: Fluoride oxalate plasma only. On ice and separate from cells within 15 mins, analyse promptly. Handle with care as sweat contains large amounts of lactate. No tourniquet.

Patient: Rest 30 mins prior to test.

17 Homocysteine

Should be spun and separated within 1 hour of venepuncture.

18 Citrate Samples

Samples should be double spun and separated and frozen within 4-8 hours of sample taking, if a delay is expected with transportation to the laboratory, samples must be transported as frozen.

19 Must include patient's age, height and weight.

21 Urine cytology container, ideally first catch, mid-morning specimen.

22 Must be fresh.

30 Collect sample at end of exposure.

33 Sample must be labelled by hand with first name, family name, gender and date of birth detailed on sample and form. Do not use labels other than the tube label.

34 Samples must arrive in the laboratory on the same day of sample taking or contact the laboratory.

35 Patient should be fasting and resting for 30 mins before sample taking. Samples need handling urgently.

36 Renin: Sample collected either upright/active or resting/supine (3 hours lying). EDTA Plasma must be frozen within 2 hours.

37 Provide sample time and date of collection.

38 EDTA sample should not be separated: send whole blood.

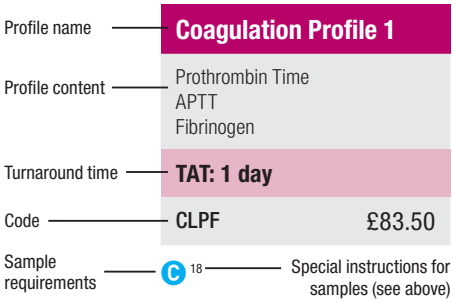
40 Informed Consent is required for these tests.

41 Recommendation for patient to attend Patient Reception for sample taking.

42 LGV can be added to a positive chlamydia sample using the same swab if requested within 4 days of receipt of result.

43 Please contact lisa.levett@tdlpathology.com for details for referring samples to the laboratory for sequencing testing.

Profile panel information



TDL Screening Profiles DL1-DL12

DL1 Biochemistry Profile

CHANGE

Urea and Electrolytes: Sodium, Potassium, Chloride, Bicarbonate, Urea, Creatinine, eGFR

Liver Function Tests: Bilirubin, Alkaline Phosphatase, AST, ALT, Gamma GT, Protein Total, Albumin, Globulin

Bone Markers: Calcium, Phosphate, Uric Acid, Magnesium

Glucose
Triglycerides
Cholesterol
Iron (TIBC included)

TAT: 1 day

DL1	£50.00*
DL1L plus HDL, LDL (Calculated) and Non-HDL Cholesterol	£55.00*

B G

DL5 Biochemistry & Haematology Postal Profile

CHANGE

AS DL4

DL5/DL5L do not include ESR and Phosphate as these results may be more affected by overnight transit times.

TAT: 1 day

DL5	£60.00*
DL5L plus HDL, LDL (Calculated) and Non-HDL Cholesterol	£65.00*

A B G

DL2 Biochemistry (24 Parameters) & Haematology Profile

CHANGE

HAEMATOLOGY

Full Blood Count (FBC), ESR

BIOCHEMISTRY

Urea and Electrolytes: Sodium, Potassium, Chloride, Bicarbonate, Urea, Creatinine, eGFR

Liver Function Tests: Bilirubin, Alkaline Phosphatase, AST, ALT, Gamma GT, Protein Total, Albumin, Globulin

Bone Markers: Calcium, Phosphate, Uric Acid, Magnesium

Glucose
Triglycerides
Cholesterol
Iron (TIBC included)

TAT: 1 day

DL2	£65.00*
DL2L plus HDL, LDL (Calculated) and Non-HDL Cholesterol	£70.00*

A B G

DL6 General Well Person Profile

CHANGE

DL2 HbA1c
Free T4 / TSH Ferritin

TAT: 1 day

DL6	£130.00*
DL6L plus HDL, LDL (Calculated) and Non-HDL Cholesterol	£135.00*

A B G

DL3 Haematology Profile

Full Blood Count (FBC)
ESR

TAT: 1 day

DL3	£32.00*

A

DL4 Biochemistry (16 Parameters) & Haematology Profile

CHANGE

HAEMATOLOGY

Full Blood Count (FBC), ESR

BIOCHEMISTRY

Renal Function: Urea, Creatinine, eGFR

Liver Function Tests: Bilirubin, Alkaline Phosphatase, AST, ALT, Gamma GT, Protein Total, Albumin, Globulin

Bone Markers: Calcium, Phosphate, Uric Acid, Magnesium

Glucose
Triglycerides
Cholesterol

TAT: 1 day

DL4	£60.00*
DL4L plus HDL, LDL (Calculated) and Non-HDL Cholesterol	£65.00*

A B G

*All DL Profiles are priced showing fees to doctor.

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

TDL Screening Profiles DL1-DL12

DL7 Well Man Profile

CHANGE
DL2
Free T4 / TSH
Ferritin
HbA1c
Prostate Profile

TAT: 1 day

DL7	£160.00*
DL7L plus HDL, LDL (Calculated) and Non-HDL Cholesterol	£165.00*

A B G

DL8 Well Person Profile

CHANGE
DL2
Free T4 / TSH
Ferritin
HbA1c
Vitamin D (25-OH)

TAT: 1 day

DL8	£160.00*
DL8L plus HDL, LDL (Calculated) and Non-HDL Cholesterol	£165.00*

A B G

DL9F Senior Female Profile 60+

CHANGE
DL2
HDL/LDL Cholesterol (Calculated)
Free T4 / TSH
HbA1c
C Reactive Protein (CRP)
C Reactive Protein (High Sensitivity)
Ferritin
MSU
Vitamin D (25-OH)
HE4
Lp-PLA2 (PLAC) Test

TAT: 2 days

DL9F	£390.00*

A B B G RU [4]

DL9M Senior Male Profile 60+

CHANGE
DL2
HDL/LDL Cholesterol
Free T4 / TSH
HbA1c
Prostate Profile
C Reactive Protein (CRP)
C Reactive Protein (High Sensitivity)
Ferritin
MSU
Vitamin D (25-OH)
Lp-PLA2 (PLAC) Test

TAT: 2 days

DL9M	£380.00*

A B B G RU [4]

DL10 Cardiovascular Risk Profile 1

Lipid Profile (Cholesterol, Triglycerides, HDL Cholesterol, LDL Cholesterol, Non-HDL Cholesterol)
Apolipoprotein A1
Apolipoprotein B
Lipoprotein (a)
C Reactive Protein (High Sensitivity)
Lp-PLA2 (PLAC) Test

TAT: 3 days

DL10	£250.00*

B B

DL11 Cardiovascular Risk Profile 2

Lipid Profile (Cholesterol, Triglycerides, HDL Cholesterol, LDL Cholesterol (Calculated), Non-HDL Cholesterol)
Apolipoprotein A1
Apolipoprotein B
Lipoprotein (a)
Fibrinogen
C Reactive Protein (High Sensitivity)
Lp-PLA2 (PLAC) Test
Homocysteine (Quantitative)

TAT: 3 days

DL11	£320.00*

B B B C [34]

DL12 7 STI Profile by PCR (7 PCR Tests from 1 Sample)

Chlamydia trachomatis
Mycoplasma genitalium
Trichomonas vaginalis
Herpes Simplex I/II
Neisseria gonorrhoea
Ureaplasma species
Gardnerella vaginali

All tests can be requested individually

TAT: 2 days

DL12	£140.00*

FCRU / PCR Swab / TPV

*All DL Profiles are priced showing fees to doctor.

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Stockholm3 test for early detection of Prostate Cancer

Stockholm3 is a blood test that helps to predict risk of clinically significant prostate cancer in men aged 45–74 years with a PSA level greater than 1.5 ng/ml where no previous diagnosis of prostate cancer has been made. Stockholm3 combines genetic markers, proteins and clinical data in an algorithm to help identify clinically significant prostate cancer. It allows for screening in primary or secondary care settings and is equivalent across diverse ethnicities. Apart from a strong health economic case, the result from a Stockholm3 test can be used to reduce unnecessary imaging or invasive diagnostic procedures.

Key characteristics of Stockholm3

- Increased early detection – increased sensitivity
- Increased specificity reduces over testing, unnecessary biopsies by 50% and treatment
- Higher accuracy compared to PSA, PSAD and prostate cancer risk calculator
- Can distinguish between aggressive and benign tumours in a way that PSA testing cannot
- Validated in combination with MRI and in multiple ethnicities
- Shown to detect clinically significant prostate cancers in PSA levels of 1.5–2.9 ng/ml
- Reduces healthcare costs

Stockholm3: diagnostic patient pathway, including STKR (reflex testing to STK3 from PSA with results of >1.5)

Gender	Male
Intended age	45–74 years, not had prostate cancer, PSA > 1.5 ng/ml
Clinical data required	Age, family history of prostate cancer, previous biopsies, use of 5-alpha reductase inhibitors (Avodart [Dutasteride] or Proscar [Finasteride].
Test code STK3	2 x EDTA tubes must be received within 24–36 hours of sample taking. TAT up to 2 weeks
Test code STKR	PSA levels of >1.5 combined with reflex testing to STK3. 1 x SST, 2 x EDTA tubes must be received within 24–36 hours of sample taking. TAT up to 2 weeks.

A Stockholm3 risk score of >11 is considered to be an indicator of clinically significant prostate cancer risk and referral to a urologist for further investigation is recommended.

For further information about the test please contact stockholm3@tdlpathology.com. Don't post samples to TDL as the timing for receipt of samples within 24–36 hours is important.

See page 106 for test information.

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See page 25 for sample-taking and special handling instructions.

Biochemistry

TEST	CODE	SAMPLE REQS	TAT	PRICE
5 HIAA	RU5H	**PU** (collect on acid)[1]	5 days	£103.50
5' Nucleotidase	5NT	B	5 days	£86.00
6-Thioguanine Nucleotides	TGN	A A	2 weeks	£181.50
21 Hydroxylase Ab's	21HA	B (Frozen)	10 days	£237.00
Acetylcholine Receptor Autoantibodies	ACRA	B[4]	5 days	£224.00
Acid Phosphatase – Total	APT	B	5 days	£52.50
Adenosine Deaminase	AD	A / B / **Fluid**	3 weeks	£300.50
Adiponectin	ADIP	B	2 weeks	£239.00
Albumin	ALB	B	1 day	£30.50
Alcohol (Medical) [Do not use alcohol swab prior to sample taking]	ALCO	G[1]	1 day	£85.00
Alcohol (Urine)	UALC	**RU**	1 day	£85.00
Aldolase	ALDO	B	5 days	£62.50
Alkaline Phosphatase	ALP	B	1 day	£30.50
Alkaline Phosphatase Isoenzymes	APIE	B	5 days	£121.00
Alpha-1-Antitrypsin (Serum)	A1AT	B	1 day	£121.00
Alpha-1-Antitrypsin (Stool)	A1AF	**RF**	10 days	£93.00
Alpha-1-Antitrypsin Genotype – PI*M, PI*S, PI*Z Requires patient informed consent.	GENE	A[9]	3 weeks	£250.00
Alpha-1-Glycoprotein	OROS	B (Frozen)	5 days	£170.00
Alpha-1-Microglobulin	A1MG	**RU**[1,22]	10 days	£87.00
Alpha-2-Macroglobulins	A2MG	B	5 days	£116.50
Alpha-Fetoprotein	AFP	B	1 day	£60.00
ALT (Alanine Aminotransferase) (SGPT)	ALT	B	1 day	£30.50
Aluminium (Blood)	ALUM	K	7 days	£80.00
Amino Acid (EDTA Plasma)	AMIN	A (Frozen EDTA Plasma)	7 days	£360.50
Amino Acid Quantitative (Urine)	UAAQ	**RU** (Frozen)	7 days	£360.50
Aminolevulinic Acid (Urine)	RUAL	100mls **PU**	5 days	£70.50
Ammonia	AMMO	A (Frozen)[15]	1 day	£94.50
Amylase (Self-collect)	AMY	B (TDL Tiny)	1 day	£51.50
Amylase (Urine)	UAMY	**CU**	1 day	£51.50
Amylase (Venous)	AMY	B	1 day	£51.50
Amylase Isoenzymes	AMYI	B	5 days	£193.00
Amyloidosis (Amyloid A Protein)	SAA	B	5 days	£108.50
Androstanediol Glucuronide	ANDG	B	3 weeks	£146.00

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Biochemistry

TEST	CODE	SAMPLE REQS	TAT	PRICE
Angiotensin II	ANG2	A (Frozen plasma)	2 weeks	£148.00
Angiotensin Converting Enzyme	ACE	B	1 day	£90.00
Angiotensin Converting Enzyme – CSF	ACEF	**CSF** (Frozen)	2 weeks	£124.00
Antimony (Urine)	ANTI	**RU** [30]	10 days	£106.00
Antimullerian Hormone (AMH) (Self-collect)	AMH	B (TDL Tiny) or F (TDL Tiny)	1 day	£130.50
Antimullerian Hormone (AMH) (Venous) Samples can be taken, at any time during a patient's monthly cycle. Ambient, unspun sample stability has been validated for up to 5 days (Venous).	AMH	B	1 day	£130.50
AP50 Alternative Hemolytic Complement	AP50	B (Frozen)	2 weeks	£136.00
Apolipoprotein A1 (Self-collect) NEW	APOA	B (TDL Tiny)	3 days	£76.00
Apolipoprotein A1 (Venous)	APOA	B	3 days	£76.00
Apolipoprotein B (Self-collect) NEW	APOB	B (TDL Tiny)	3 days	£76.00
Apolipoprotein B (Venous)	APOB	B	3 days	£76.00
Apolipoprotein C	APOC	B	3 months	£91.00
Apolipoprotein E (12 hours fasting)	APOE	B (fasting)	5 days	£93.00
Arsenic (Blood)	ARS	A or H	5 days	£83.50
Arsenic (Urine)	ARSE	**RU** [30]	5 days	£83.50
Arylsulphatase A	ARYL	H [5,6]	8 weeks	£325.50
Aspartate Transaminase (AST) (SGOT)	AST	B	1 day	£30.50
Bence-Jones Protein	RBJP	**RU** or **CU**	5 days	£102.50
Beta 2 Microglobulin (Serum)	B2MG	B	2 days	£97.00
Beta 2 Microglobulin (Urine)	UB2M	**RU**	3 days	£109.50
Beta-Glucuronidase (Sly Disease)	BGLU	H H [9,4]	8 weeks	£276.00
Bicarbonate	HCO3	B	1 day	£26.00
Bile Acids – Serum	BILE	B	1 day	£66.50
Bilirubin (Direct)	DBIL	B	1 day	£30.50
Bilirubin (Indirect)	IBIL	B	1 day	£30.50
Bilirubin (Total)	BILI	B	1 day	£30.50
Biotinidase	BIOT	H (Frozen plasma)[4]	3 weeks	£185.00
Bismuth	BISM	B	5 days	£161.00
BNP (NT-pro BNP)	BNP	B	1 day	£94.50
Bone Alkaline Phosphatase	BALP	B (Frozen)	2 weeks	£120.00
Bone Screen	BONE	B **CU**	1 day	£56.50
Bone Screen (Bloods only)	BON2	B	1 day	£129.50
BUN (Blood Urea Nitrogen) (Calculated)	BUN	B	1 day	£33.50

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Biochemistry

TEST	CODE	SAMPLE REQS	TAT	PRICE
C Reactive Protein (Self-collect)	CRP	B (TDL Tiny)	1 day	£54.00
C Reactive Protein (Venous)	CRP	B	1 day	£54.00
C Reactive Protein (High Sensitivity) (Self-collect)	HCRP	B (TDL Tiny)	1 day	£54.00
C Reactive Protein (High Sensitivity) (Venous)	HCRP	B	1 day	£54.00
C1 Esterase: Function & Total	FC1E	C C (Plasma Frozen)[4,18]	10 days	£196.50
C1q Binding Immune Complex	IMCP	B	5 days	£106.00
Cadmium (Blood)	CADM	A or H	5 days	£83.50
Cadmium (Urine)	URCD	**RU**[30]	5 days	£83.50
Caeruloplasmin	CERU	B	1 day	£57.50
Calcium (24 hour Urine)	UCA	**PU** or acid urine	1 day	£33.50
Calcium (Venous)	CA	B	1 day	£30.50
Calcium + Vitamin D (Venous)	CALD	B	1 day	£106.50
Calcium/Creatinine Ratio	CACR	**CU** B	1 day	£57.50
Calprotectin	CALP	**QFIT** sample collection device	5 days	£97.00
Calprotectin (Self-collect)	CALP	**QFIT** sample collection device	5 days	£97.00
Calprotectin/QFIT Profile (Combined) (QFIT)	QCAL	**QFIT**	5 days	£154.50
Calprotectin/QFIT Profile (Combined) (Self-collect)	QCAL	**QFIT** sample collection device	5 days	£154.50
Carbohydrate Deficient Glycoprotein	CDG	B	2 weeks	£293.50
Carbohydrate Deficient Transferrin (CDT) (Self-collect)	CDT	B (TDL Tiny)	3 days	£161.00
Carbohydrate Deficient Transferrin (CDT) (Venous)	CDT	B	3 days	£161.00
Cardiovascular Risk Profile 1	PP10	B B	3 days	£362.50
Cardiovascular Risk Profile 2	PP11	B B B C[34]	3 days	£437.00
Chest Pain Profile	CPP	B	STAT	£138.00
Chloride	CL	B	1 day	£26.00
Cholesterol	CHO	B	1 day	£28.00
Cholesterol (Familial Hypercholesterolaemia) Requires patient informed consent.	GENE	A A[9]	7 weeks	£665.50
Cholinesterase (Serum/Pseudo)	CHPS	B	1 day	£56.50
Chromium (Blood)	CHRO	A / Trace metal / H	5 days	£73.50
Chromium (Urine)	URCR	**RU**[30]	4 weeks	£73.50

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Biochemistry

TEST	CODE	SAMPLE REQS	TAT	PRICE
Chromogranin A	CGA	B	1 week	£163.50
Chromogranin A & B	MTAB	A (Frozen plasma)	3 weeks	£286.50
Citrate (Blood)	CITR	B	5 days	£90.00
Citrate (Urine)	UCIT	**CU** (Frozen)	5 days	£92.00
CK (MB Fraction)	CKMB	B	1 day	£50.50
CK Isoenzymes	CKIE	B	5 days	£121.00
Cobalt (Blood)	COB	A	5 days	£83.50
Cobalt (Urine)	COBA	**RU** [30]	5 days	£83.50
Coenzyme Q10	CQ10	B	2 weeks	£163.50
Cold Agglutinin	CAGG	**J** [1]	5 days	£66.50
Complement C1q	C1Q	B	5 days	£76.00
Complement C2	C2	B	10 days	£173.00
Complement C3	C3	B	1 day	£55.00
Complement C4	C4	B	1 day	£55.00
Complement C5	C5A	B	2 weeks	£173.00
Complement C6 * Separate and freeze within 2 hours after collection.	C6	B (Frozen)*	5 weeks	£80.00
Complement C7 * Separate and freeze within 2 hours after collection.	C7	B (Frozen)*	5 weeks	£80.00
Complement C8 * Separate and freeze within 2 hours after collection.	C8	B (Frozen)*	5 weeks	£81.00
Complement C9 * Separate and freeze within 2 hours after collection.	C9	B (Frozen)*	5 weeks	£80.00
Complement Factor H	FACH	B	3 weeks	£169.00
Copper (Serum)	COPP	B or K	5 days	£62.50
Copper (Urine)	URCU	**CU**	5 days	£62.50
Cortisol Binding Globulin	CBG	B (Frozen)	1 month	£128.50
Cotinine (Urine)	COTT	**RU**	2 days	£72.50
Creatine Kinase (CK, CPK)	CKNA	B	1 day	£36.00
Creatinine (including eGFR) (Self-collect)	CREA	B (TDL Tiny)	1 day	£30.50
Creatinine (including eGFR) (Venous)	CREA	B	1 day	£30.50
Creatinine (Urine)	UCR	**CU**	1 day	£42.00
Creatinine Clearance	CRCL	B **CU**	1 day	£55.00
Crosslaps (Serum DPD)	SDPD	B (Freeze within 24 hours)	4 days	£107.00
Cryoglobulins	CRYO	**J** [6]	10 days	£60.00
Cyclosporin	CYCL	A	1 day	£135.00

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Biochemistry

TEST	CODE	SAMPLE REQS	TAT	PRICE
Cystatin C	CYCC	B	5 days	£104.50
Cystine – Quantitative (Beta-CTX)	QCYS	**PU**	5 days	£130.50
Deoxypyridinoline (DPD) – Serum	SDPD	B (Freeze within 24 hours)	4 days	£107.00
Deoxypyridinoline (DPD) – Urine	DPD	**EMU**	4 days	£107.00
Diabetic Profile 1 Please clearly state fasting or non-fasting status.	DIAB	A G	1 day	£64.50
Diabetic Profile 2 Please clearly state fasting or non-fasting status.	DIA2	A G **RU**	2 days	£124.00
Diamine Oxidase Activity	DIAM	B	2 weeks	£98.50
Elastase (RF)	ELAS	**RF**	5 days	£112.00
Elastase (Self-collect)	ELAS	Stool/faecal container	5 days	£112.00
Electrolytes	ELEC	B	1 day	£36.00
Electrolytes (Urine)	UELE	**CU**	1 day	£43.50
ELF/Enhanced Liver Fibrosis	ELF	B	5 days	£204.00
Eosinophil Cationic Protein	ECP	B	7 days	£131.50
Erythropoietin	ERY	B	4 days	£92.00
Faecal Fat (1 day collection)	TFFA	**LF** [6]	5 days	£161.00
Faecal Fat (3 day)	FFAT	**LF** [6]	5 days	£130.50
Faecal Lactoferrin	FLAC	**RF**	5 days	£87.00
Faecal Sugar Chromatography	FCRO	**RF** (Frozen)	3 weeks	£184.00
Ferritin (Self-collect)	FERR	B (TDL Tiny)	1 day	£83.50
Ferritin (Venous)	FERR	B	1 day	£83.50
Fibrotest (Liver Fibrosis)	FIBT	B	2 weeks	£286.50
Fluoride (Urine)	UFL	**RU**	5 days	£120.00
Folate (Red Cell)	RBCF	A	2 days	£52.50
Folate (Serum)	FOLA	B	1 day	£52.50
Free Fatty Acids	FFA	B (Frozen) [1]	10 days	£136.00
Fructosamine	FRUC	B	1 day	£48.00
Galactose-1-Phosphate Uridyltransferase	GAL1	H [5,6]	2 weeks	£258.00
Galactosidase – Alpha* *Sample must reach TDL Referrals Dept. urgently, to be tested within 24 hours of collection. Monday–Thursday only. Referrals to send Immediately.	GALA	**J***	6 weeks	£313.50
Gall Stone Analysis	RSTA	**STONE**	10 days	£191.00
Gamma GT	GGT	B	1 day	£28.00
Gastrin	GAST	A (Plasma frozen)	5 days	£121.00
Globulin (Calculated)	GLOB	B	1 day	£33.50

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Biochemistry

TEST	CODE	SAMPLE REQS	TAT	PRICE
Glucagon	GLUG	A (Plasma)	10 days	£224.00
Glucose Please clearly state fasting or non-fasting status.	RBG	G	1 day	£29.00
Haemochromatosis – HFE common variants C282Y + H63D	HMD	A [9]	3 days	£234.50
Haemosiderin (Urine)	HSID	**EMU**	2 weeks	£112.00
Haptoglobin	HAPT	B	5 days	£76.00
HbA1c (Self-collect)	GHB	A (TDL Tiny)	1 day	£55.00
HbA1c (Venous)	GHB	A	1 day	£55.00
HDL Cholesterol	HDL	B	1 day	£44.50
Homocysteine (Quantitative)	HOMO	B [17] or A (Plasma)	1 day	£97.00
Homocysteine (Urine)	HCYS	**CU**	2 weeks	£136.00
Homovanillic Acid (HVA)	HVA	**PU**	5 days	£106.00
Hyaluronic Acid	AHT	B	1 week	£73.50
Hydroxybutyrate Dehydrogenase	HBD	B (Frozen)	1 week	£90.00
Hydroxyprolene	UHYD	**CU**	2 weeks	£99.50
IgG Subclasses	IGSC	B	5 days	£243.00
Immunoglobulin A	IGA	B	1 day	£43.50
Immunoglobulin D	IGD	B	5 days	£75.00
Immunoglobulin E – Total	IGE	B	1 day	£60.00
Immunoglobulin G	IGG	B	1 day	£43.50
Immunoglobulin M	IGM	B	1 day	£43.50
Immunoglobulins (IgG, IgM, IgA)	IMM	B	1 day	£87.00
Insulin-Like Growth Factor 2	IGF2	B [6]	1 month	£321.50
Iodide – Urine	UIOD	**RU**	1 week	£139.00
Iodine – Serum	IODI	B	1 week	£116.50
Ionised Calcium	ICPA	B	5 days	£54.00
Iron (TIBC included) (Venous)	FE	B	1 day	£33.50
Iron Overload Profile	IOP	A B [9]	3 days	£301.50
Iron Status Profile (Venous)	ISP	B	1 day	£97.00
Lactate (Plasma)	LACT	G [16]	1 day	£82.50
Lactate Dehydrogenase (LDH)	LDH	B	1 day	£36.00
Lactate Pyruvate Ratio	LPR	**J** [1]	4-6 weeks	£145.00
Lactose Tolerance Test Collection timings and sample requirements: Contact 0207 307 7383 (Phlebotomy)	LTT	By appointment only	1 day	£152.50
LDL7 Subfractions	LDL7	B	10 days	£259.00

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Biochemistry

TEST	CODE	SAMPLE REQS	TAT	PRICE
Lead (Blood)	LEAD	A	5 days	£62.50
Lead (Urine)	URPB	**RU**	5 days	£62.50
Leptin	LEPT	B (height & weight required)[19]	5 days	£163.50
Lipase (Self-collect)	LIPA	B (TDL Tiny)	1 day	£57.50
Lipase (Venous)	LIPA	B	1 day	£57.50
Lipid Profile (Self-collect)	LIPP	B (TDL Tiny)	1 day	£55.50
Lipid Profile (Venous)	LIPP	B	1 day	£55.50
Lipoprotein (a) (Self-collect)	LPOA	B (TDL Tiny)	1 day	£61.00
Lipoprotein (a) (Venous)	LPOA	B	1 day	£61.00
Lipoprotein Electrophoresis	LEL	B	5 days	£86.00
Lithium (take 12 hours after dose)	LITH	B	1 day	£51.50
Liver Fibrosis (Enhanced Liver Fibrosis ELF)	ELF	B	5 days	£204.00
Liver Fibrosis Fibrotest	FIBT	B	2 weeks	£286.50
Liver Function Tests (Excluding AST) (Self-collect)	TLFT	F (TDL Tiny) and B (TDL Tiny)	1 day	£55.50
Liver Function Tests (Venous)	LFT	B	1 day	£55.50
Lp-PLA2 (PLAC) Test	PLA2	B	2 days	£124.00
Lysosomal Enzyme Screen	LE	**J**[1]	2 months	£779.50
Lysozyme	LYSO	B	5 days	£90.00
Magnesium (Serum)	MG	B	1 day	£43.50
Magnesium (Urine)	URMG	**PU**	1 day	£48.00
Manganese (Serum)	MANG	B	5 days	£80.00
Mercury (Blood)	MERC	A or H	5 days	£62.50
Mercury (Urine)	URHG	**RU**[1]	5 days	£83.50
Methaqualone	METQ	**RU**	5 days	£42.00
Methylmalonic Acid – Serum	MMAS	B	5 days	£233.50
Methylmalonic Acid – Urine	MMA	**CU**	2 weeks	£146.00
Mucopolysaccharides	MPS	**RU** (Frozen)	3 weeks	£140.00
Myeloma Screen CHANGE Please clearly state fasting or non-fasting status.	MYEL	A B G	5 days	£160.00
Myoglobin (Serum)	SMYO	B	1 day	£76.00
Myoglobin (Urine)	UMYO	**RU**	5-10 days	£107.00
Newborn Screening Panel	GUTH	**J**[1]	2 weeks	£190.00
Nickel (Serum)	NICK	B	5 days	£78.50
Nickel (Urine)	NICU	**RU**	4 weeks	£83.50

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Biochemistry

TEST	CODE	SAMPLE REQS	TAT	PRICE
Oligosaccharides	UOLI	**RU**	6 weeks	£239.00
Orosomucoid (A1AG – Alpha 1 Glycoprotein)	OROS	B (Frozen)	5 days	£170.00
Osmolality (Serum)	OSMO	B	1 day	£54.00
Osmolality (Urine)	ROSM	**RU**	1 day	£51.50
Osteoporosis Screen	OPS	B B	4 days	£178.00
Oxalate (Plasma)	POXA	A (Frozen)	7 days	£106.00
Oxalate (Urine)	UOXA	**PU**	5 days	£90.00
Pancreatic Peptide	PP	**J**	4 weeks	£232.00
Parathyroid Related Peptide	PTRP	2ml A Plasma frozen (Freeze immediately)[1]	2 weeks	£164.50
PEth (Phosphatidylethanol) (Self-collect)	PETH	A (TDL Tiny)	5-7 days	£113.00
PEth (Phosphatidylethanol) (Venous)	PETH	A	5-7 days	£113.00
Phencyclidine (PCP)	DUST	**RU**	5 days	£82.50
Phosphate	PHOS	B	1 day	£28.00
Phosphate (24 hour Urine)	UPH	**PU**	1 day	£43.50
PLAC Test (Lp-PLA2) (Self-collect)	PLA2	B (TDL Tiny)	2 days	£124.00
PLAC Test (Lp-PLA2) (Venous)	PLA2	B	2 days	£124.00
Plasminogen	PLAS	C (Frozen plasma)[4]	5 days	£90.00
Plasminogen Activator Inhibitor – 1	PAI1	C (Frozen plasma)	2 weeks	£274.00
Porphyrin (Blood)	PORP	A [3]	15 days	£229.50
Porphyrin (Stool)	FPOR	**RF** [3]	3 weeks	£131.50
Porphyrin (Urine)	RPOR	**RU** [3]	3 weeks	£169.00
Porphyrin Full Screen (Total: Urine, Stool, Blood)	PORS	A **RU**, **RF** [3]	3 weeks	£521.50
Potassium	K	B	1 day	£28.00
Pregnancy (Serum) [Quantitative]	QHCG	B	1 day	£61.00
Pregnancy Test (Urine)	PREG	**RU**	1 day	£40.50
Procalcitonin	PCAL	B (Frozen)[4,7]	1 day	£114.00
Procollagen 1 Peptide N-Terminal (NTX)	P1NP	B	5 days	£300.50
Procollagen 3 Peptide	PRCO	B	5 days	£167.50
Propoxyphene	DPRO	**RU**	5 days	£115.00
Prostatic Acid Phosphatase	PACP	B (Frozen)	3 days	£62.50
Protein (Urine)	UPRT	**CU**	1 day	£42.00
Protein 14.3.3 (Creutzfeldt–Jakob Disease)	CJD	**J**	5 weeks	£548.00
Protein Electrophoresis incl. immunoglobulin	PRTE	B	5 days	£113.00

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Biochemistry

TEST	CODE	SAMPLE REQS	TAT	PRICE
Protein Total (Blood)	PROT	B	1 day	£28.00
Protein/Creatinine Ratio (Urine)	UCPR	**RU**	1 day	£77.00
QFIT/Calprotectin Profile (Combined) (QFIT)	QCAL	**QFIT**	5 days	£154.50
QFIT/Calprotectin Profile (Combined) (Self-collect)	QCAL	**QFIT** sample collection device	5 days	£154.50
Quantitative Faecal Immunochemical Test (QFIT)	QFIT	**QFIT**	1 day	£60.00
Quantitative Faecal Immunochemical Test (QFIT) (Self-collect)	QFIT	**QFIT** sample collection device	1 day	£60.00
Renal Calculi Screen (Metabolic)	RSPR	**J** [6]	5 days	£185.00
Renal Stone Analysis	RSTA	**STONE**	10 days	£191.00
Retinol Binding Protein	RBP	B	3 days	£66.50
Salicylates	SALI	B	1 day	£58.50
Selenium (Serum) (Self-collect)	SELE	B (TDL Tiny)	4 days	£77.00
Selenium (Serum) (Venous)	SELE	B	4 days	£77.00
Serum Free Light Chains	SLC	B	5 days	£327.00
Silver (Blood)	SILV	B	5 days	£108.50
Silver (Urine)	USIL	**RU**	5 days	£108.50
Sodium	NA	B	1 day	£28.00
Superoxide Dismutase	SODI	A / H	5 days	£107.00
Thiopurine Methyl Transferase	TPMT	A [5]	5 days	£151.00
Tissue Polypeptide Antigen	TPA	B	1 week	£181.50
Total Acid Phosphatase	APT	B	5 days	£52.50
Total Bile Acid/Bile Salts	BILS	B	1 week	£85.00
Total IgE	IGE	B	1 day	£60.00
Transferrin	TRAN	B	1 day	£86.00
Transferrin Electrophoresis	TREL	B	2 weeks	£276.00
Triglycerides	TRI	B	1 day	£33.50
Trimethylaminuria (Fish Odour Syndrome)	FOS	**J**	6 weeks	£389.50
Troponin I (High sensitive)	TROC	B	1 day	£100.00
Troponin T (High sensitive)	TROT	B	1 day	£108.50
Tryptase	STRY	B	2 days	£157.50
Tumour Necrosis Factor – Alpha	TNF	B (Frozen) [4]	2 weeks	£185.00
Urate (Uric acid)	UA	B	1 day	£33.50
Urea (Self-collect)	UREA	B (TDL Tiny)	1 day	£33.50
Urea (Venous)	UREA	B	1 day	£33.50

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Biochemistry

TEST	CODE	SAMPLE REQS	TAT	PRICE
Urea (Urine)	UURE	**CU**	1 day	£33.50
Urea and Electrolytes	U/E	B	1 day	£56.50
Urea/Creatinine/eGFR (Self-collect)	TCU	B (TDL Tiny)	1 day	£44.50
Uric Acid (Serum)	UA	B	1 day	£33.50
Uric Acid (Urine)	UURI	**CU**	1 day	£44.50
Urinary Bladder Cancer Antigen ** It is recommended to collect mid-stream urine. Do not use first morning urine. Collection of urine specimen before any surgical intervention or treatment or 1–2 weeks after specimen shall not be collected with an instrument e.g. catheter.	UBC	**RU** (Freeze within 48 hours)**	5 days	£93.00
Urine Microalbumin/Creatinine Ratio	UMA	**RU**	1 day	£77.00
Urine Organic Acids	UORG	**RU** (Frozen)	3 weeks	£300.50
Urine Steroid Screen (Steroid Hormones)	USTE	**CU** [9]	2 weeks	£841.50
Urine Sugar Chromatography	UCRO	**RU** (Frozen)	3 weeks	£184.00
Very Long Chain Fatty Acids	VLCF	A or H (Frozen) [9]	4-6 weeks	£319.00
Vitamin B12 (Active) (Self-collect)	B12	B (TDL Tiny)	1 day	£70.50
Vitamin B12 (Active) (Venous)	B12	B	1 day	£70.50
Vitamin B12 (Active)/Red Cell Folate	B12F	A B	2 days	£112.00
Vitamin B12 (Total)	TB12	B	1 day	£57.50
Vitamin D (25-OH) (Self-collect)	VITD	B (TDL Tiny)	1 day	£83.50
Vitamin D (25-OH) (Venous)	VITD	B	1 day	£83.50
VLDL Cholesterol	VLDL	B [13]	1 week	£86.00
VMA	UVMA	**PU** [1]	5 days	£76.00

Bone Screen

Alkaline Phosphatase
Protein Total (Blood)
Albumin
Globulin
Calcium

TAT: 1 day

BONE £56.50

B **CU**

Bone Screen (Bloods only)

Urea and Electrolytes
Liver Function Tests (LFTs)
Calcium
Phosphate
Vitamin D (25-OH)

TAT: 1 day

BON2 £129.50

B

Cardiovascular Risk Profile 1

Lipid Profile (Cholesterol, Triglycerides, HDL Cholesterol, LDL Cholesterol (Calculated), Non-HDL Cholesterol)
Apolipoprotein A1
Apolipoprotein B
Lipoprotein (a)
C Reactive Protein (High Sensitivity)
Lp-PLA2 (PLAC) Test

TAT: 3 days

PP10 £362.50

B B

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Cardiovascular Risk Profile 2

Lipid Profile (Cholesterol, Triglycerides, HDL Cholesterol, LDL Cholesterol (Calculated), Non-HDL Cholesterol)
Apolipoprotein A1
Apolipoprotein B
Lipoprotein (a)
Fibrinogen
C Reactive Protein (High Sensitivity)
Lp-PLA2 (PLAC) Test
Homocysteine (Quantitative)

TAT: 3 days

PP11	£437.00

B B B C [34]

Chest Pain Profile

Myoglobin (Serum)
CK (MB Fraction)
Troponin T (High sensitive)

TAT: STAT

CPP	£138.00

B

Calprotectin/QFIT Profile (Combined)

Calprotectin
Quantitative Faecal Immunochemical Test (QFIT)

If CALP < 50ug/g then the below comment will be appended:

Calprotectin: < 50 ug/g- Not indicative of GI inflammation. Consider IBS, or quiescent IBD if this is a known patient.

If CALP = 50 ug/g or higher, then the below comment will be appended:

Calprotectin: 50-150 ug/g repeat calprotectin in 2 weeks (Also consider other potential causes (infection, NSAIDS, GI malignancy) depending on the magnitude of the result and clinical context.)

Repeated Calprotectin result: 100–250 ug/g routine referral to gastroenterology.

Calprotectin: >250 ug/g urgent referral to gastroenterology.

TAT: 5 days

QCAL	£154.50

QFIT

Diabetic Profile 1

Glucose
HbA1c

Please clearly state fasting or non-fasting status

TAT: 1 day

DIAB	£64.50

A G

Diabetic Profile 2

Glucose
HbA1c
Microalbumin

Please clearly state fasting or non-fasting status

TAT: 2 days

DIA2	£124.00

A G **RU**

Iron Overload Profile

Iron (TIBC included)
Ferritin
Transferrin Saturation
Haemochromatosis C282Y, H63D

TAT: 3 days

IOP	£301.50

A B [9]

Iron Status Profile (Venous)

Iron (TIBC included)
Ferritin
Transferrin Saturation

TAT: 1 day

ISP	£97.00

B

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Lipid Profile (Venous)

Triglycerides
Cholesterol
HDL Cholesterol
LDL Cholesterol (Calculated)
Non-HDL Cholesterol

TAT: 1 day

LIPP	£55.50

B

Liver Function Tests (Venous)

ALT (Alanine Aminotransferase) (SGPT)
Aspartate Transaminase (AST) (SGOT)
Bilirubin (Total)
Total Protein
Alkaline Phosphatase
Albumin
Globulin
Gamma GT

TAT: 1 day

LFT	£55.50

B

Myeloma Screen

CHANGE
Full Blood Count (FBC)
ESR
Biochemistry Profile
Protein Electrophoresis
Immunoglobulins (IgA, IgG, IgM)
Serum Free Light Chains

Please clearly state fasting or non-fasting status

TAT: 5 days

MYEL	£160.00

A B G

Osteoporosis Screen

Alkaline Phosphatase
Calcium
Albumin
Phosphate
Crosslaps (Serum DPD)
Vitamin D (25 OH)

TAT: 4 days

OPS	£178.00

B B

Porphyrin Full Screen (Total: Blood, Stool, Urine)

Porphyrin Blood
Porphyrin Stool
Porphyrin Urine

TAT: 3 weeks

PORS	£521.50

A **RU, RF** [3]

Urea and Electrolytes

Sodium
Potassium
Chloride
Bicarbonate
Urea
Creatinine

TAT: 1 day

U/E	£56.50

B

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Haematology

All citrate samples C sent by post or with an overnight delay must be double spun and sent frozen.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Anaemia Profile	ANAE	A A B	2 days	£174.00
Antenatal Profile	ANTE	A A [33] B B B G	3 days	£588.00
APTT/KCCT	KCCT	C [18]	1 day	£43.50
Atypical Antibody Screen (handwritten tube label)	AASC	A [22,33]	2 days	£58.50
Blood Film Examination	FILM	A	1 day	£36.00
Blood Group † † The tube's own label must be completed by hand. This must correspond with same name and date of birth details as given on the request form. Do not affix additional computerised or hand written labels.	ABO	A [22,33]	2 days	£64.50
Carboxyhaemoglobin	CBHB	A	1 week	£83.50
Coagulation Profile 1	CLPF	C [18]	1 day	£83.50
Coagulation Profile 2	CLOT	A C [18]	1 day	£109.50
D-Dimers (Fibrinogen Degradation Products)	DDIT	C [4]	1 day	£72.50
DVT/Pre-travel Screen	DVT1	A A B [9]	5 days	£286.50
ESR	ESR	A	1 day	£33.50
Fibrinogen	FIB	C [4,18]	1 day	£44.50
Full Blood Count	FBC	A	1 day	£49.00
Full Blood Count* (Haemoglobin, White Cell Count, Red Cell Count, Platelets) (Self-collect) NEW *Mix sample on collection.	TFBC	A (TDL Tiny)	1 day	£49.00
Haematology Profile	PP3	A	1 day	£58.00
Haemoglobin	HB	A	1 day	£33.50
Immune Function Evaluation (Total)	TIE	A + B [5,10]	7 days	£369.50
INR	PTIM	C [18]	1 day	£30.50
Lymphocyte Subsets (CD3/CD4/CD8)	LYSS	A	1 day	£257.00
Malarial Parasites	MALP	A [4,9,14]	STAT	£62.50
Malarial Parasites (visa, non-urgent)	MP48	A	2 days	£62.50
Mean Cell Volume (MCV)	MCV	A	1 day	£36.00
Microfilaria Blood Film	MICF	A	STAT	£38.00
Natural Killer Profile 2	NKP2	A [10]	2 days	£282.50
PAI-1 4G/5G Polymorphism	PAIP	A	10 days	£207.50
Paul Bunnell (Monospot)	PAUL	A or B	1 day	£37.00

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Haematology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Pre-Travel Screen (DVT)	DVT1	A A B [9]	5 days	£286.50
Prothrombin Time	PTIM	C [18]	1 day	£30.50
Reticulocyte Count	RETC	A	1 day	£33.50
Thrombin Time	THRO	C [18]	1 day	£35.00

Special Haemostasis

TEST	CODE	SAMPLE REQS	TAT	PRICE
Activated Protein C Resistance	APCR	C (Frozen) [4,18]	3 days	£108.50
ADAMTS-13 Activity	CP13	C (Frozen) [4,18]	3 days	£100.00
ADAMTS-13 Antibody	A13A	C (Frozen) [9,18]	2 weeks	£130.00
Anti-Xa Apixaban Monitoring * Please state drug and time of dose on request.	APIX	C (Frozen)* [18]	3 days	£120.00
Anti-Xa Edoxaban Monitoring *Please state drug and time of dose on request.	EDOX	C (Frozen)* [18]	3 days	£198.50
Anti-Xa Fondapariux Monitoring * Please state drug and time of dose on request.	FOND	C Frozen)* [18]	3 days	£110.50
Anti-Xa LMWH Monitoring * Please state drug and time of dose on request.	LMWX	C (Frozen)* [18]	3 days	£110.50
Anti-Xa Rivaroxaban Monitoring * Please state drug and time of dose on request.	RIVA	C (Frozen)* [18]	3 days	£120.00
Antithrombin III Activity	A111	C (Frozen) [4,9,18]	3 days	£82.50
Factor II Assay	FAC2	C (Frozen) [9,18]	5 days	£82.50
Factor V Assay	FAC5	C (Frozen) [9,18]	5 days	£82.50
Factor VII Assay	FAC7	C (Frozen) [9,18]	5 days	£128.50
Factor VIII Assay	FAC8	C (Frozen) [9,18]	5 days	£128.50
Factor VIII Inhibiting Antibody	F8IA	C C [18]	2 weeks	£128.50
Factor IX Assay	F1X	C (Frozen) [9,18]	5 days	£128.50
Factor IX Inhibiting Antibody	F9IA	C C [18]	2 weeks	£128.50
Factor X Assay	FX	C (Frozen) [9,18]	5 days	£164.50
Factor XI Assay	FX1	C (Frozen) [9,18]	5 days	£128.50
Factor XII Assay	FX11	C (Frozen) [9,18]	5 days	£128.50
Factor XIII Assay	FA13	C (Frozen) [9,18]	5 days	£319.00
FXIII A Subunit	F13S	C (Frozen) [9,18]	14 days	£386.00
Hughes Syndrome	LUPA	B C C [4,18]	2 days	£116.50
Lupus Anticoagulant and Anticardiolipin Abs	LUPA	B C C [4,18]	2 days	£116.50
Lupus Anticoagulant only	LUPC	C C [9,18]	2 days	£76.00

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See page 25 for sample-taking and special handling instructions.

Haematology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Miscarriage/Thrombotic Risk Profile	PROP	A A B C C C [18]	5 days	£760.00
P2Y12 Receptor Platelet Function Analysis (Clopidogrel Resistance) ** Samples not processed at Halo, contact haemostasis lab on UCLH.Haemostasis@tdlpathology.com prior to sample taking.	P2Y	J [1]	1 day	£110.50
Platelet Aggregation Studies **Samples not processed at Halo, contact haemostasis lab on UCLH. Haemostasis@tdlpathology.com. Please contact Haemostasis laboratory prior to arranging patient appointment. Platelet aggregation studies are not processed without prior arrangement.	PLAG	J** [9]	3 days	£335.00
Platelet Function Test Screen – PFA-100/200 ** Samples not processed at Halo, please contact haemostasis lab on UCLH.Haemostasis@tdlpathology.com prior to sample taking.	PFAT	J** [1]	1 day	£165.50
Protein C Activity	PRC	C (Frozen) [4,9,18]	3 days	£70.50
Protein S Activity	PS1	C (Frozen) [4,9,18]	5 days	£68.50
Protein S Free Ag	FPRS	C (Frozen) [4,9,18]	3 days	£70.50
Taipan Snake Venom Time	TTVT	C C [9,18]	2-3 weeks	£251.50
Thrombotic Risk Profile	PROP	A A B C C C [18]	5 days	£760.00
Viscosity (Plasma) *EDTA plasma must be separated within 24 hours of collection and sent at room temperature.	VISC	A * [4]	3 days	£60.00
Von Willebrand Profile	FVWF	C C C [4,9,12]	5 days	£229.50
Von Willebrands Multimers	VWM	C C C [18]	3 months	£633.50

Special Haematology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Coombs (Direct Antiglobulin Test)	COOM	A	2 days	£35.00
Eosin-5 Maleimide Dye binding test for Hereditary spherocytosis (EMA)* *Sample to be received by laboratory within 24 hours of being taken and the test is done Tuesday to Thursday (test must be performed within 48 hours of sample being taken.	EMA	A	2 days	£165.50
G6PD	G6PD	A	4 days	£101.00
Haemoglobin Electrophoresis	HBEL	A	4 days	£106.00
HFE gene (Haemochromatosis) – common variants C282Y + H63D	HMD	A [9]	3 days	£234.50
Thalassaemia Screen	HBEL	A	4 days	£106.00

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Flow Cytometry

TEST	CODE	SAMPLE REQS	TAT	PRICE
Bone Marrow (Aspirate)	BMAS	J [1]	14 days	£531.00
Bone Marrow (Trephine Biopsy)	BMI	J [1]	3 days	£642.00
CD3/CD4/CD8	LYSS	A [10]	1 day	£257.00
CD16	CD16	A [4]	1 day	£124.00
CD19 B Cells	CD19	A [4]	1 day	£124.00
CD20	CD20	A [10]	2 days	£135.00
CD25	CD25	A [10]	2 days	£91.00
CD56	CD56	A [4]	1 day	£87.00
CD57	CD57	A	1 day	£120.00
Leukaemia Immunophenotyping	LYPT	A [4,5]	5 days	£579.50

Anaemia Profile

Full Blood Count (FBC)
ESR
Iron (TIBC included)
Ferritin
Vitamin B12 (Active)
Folate (RBC)

TAT: 2 days

ANAE	£174.00

A A B

Antenatal Profile

Full Blood Count (FBC)
Blood Group and Rh Type
Atypical Antibody Screen
Haemoglobin electrophoresis
Syphilis IgG/IgM
Glucose
Free T4 / TSH
Rubella Antibody (IgG)
Toxoplasma Antibodies (IgG, IgM)
Cytomegalovirus (IgG/IgM) Antibodies
Hepatitis B Surface Antigen
Hepatitis C Antibodies
Varicella zoster Antibodies (IgG)
HIV 1 & 2 Abs

Please ensure the blood group (EDTA) tube label is handwritten. Do not affix a secondary label.

TAT: 3 days

ANTE	£588.00

A A [33] B B B G

Coagulation Profile 1

Prothrombin Time
APTT/KCCT
Fibrinogen

TAT: 1 day

CLPF	£83.50

C [18]

Coagulation Profile 2

Full Blood Count (FBC)
Prothrombin Time
APTT/KCCT
Fibrinogen

TAT: 1 day

CLOT	£109.50

A C [18]

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See page 25 for sample-taking and special handling instructions.

DVT/Pre-travel Screen

Full Blood Count (FBC)
Factor II Prothrombin – G20210A Variant
Factor V Leiden – G1691A Variant
Cardiolipin Antibodies (IgG+IgM)

TAT: 5 days

DVT1	£286.50

A A B [9]

Haematology Profile

Full Blood Count (FBC)
ESR

TAT: 1 day

PP3	£58.00

A

Miscarriage/ Thrombotic Risk Profile

Full Blood Count (FBC)
Coagulation Profile 1
Antithrombin III
Factor V Leiden – G1691A Variant
Factor II Prothrombin – G20210A Variant
MTHFR – common C677T + A1298C variants
Lupus Anticoagulant
Protein C
Free Protein S Ag
Cardiolipin Antibodies (IgG+IgM)

TAT: 5 days

PROP	£760.00

A A B C C C [18]

Natural Killer Profile 2

CD3
CD4
CD8
CD16/CD56
CD19

TAT: 2 days

NKP2	£282.50

A [10]

Pre-Travel Screen (DVT)

Full Blood Count (FBC)
Factor II Prothrombin – G20210A Variant
Factor V Leiden – G1691A Variant
Cardiolipin Antibodies (IgG+IgM)

TAT: 5 days

DVT1	£286.50

A A B [9]

Thrombotic Risk Profile

Full Blood Count (FBC)
Coagulation Profile 1
Antithrombin III
Factor V Leiden – G1691A Variant
Factor II Prothrombin – G20210A Variant
MTHFR – common C677T + A1298C variants
Lupus Anticoagulant
Protein C
Protein S Free Ag
Cardiolipin Antibodies (IgG+IgM)

TAT: 5 days

PROP	£760.00

A A B C C C [18]

Von Willebrand Profile

Von Willebrand Factor
Von Willebrand Activity (GPIbM assay)
Factor VIII Assay

TAT: 5 days

FVWF	£229.50

C C C [4,9,12]

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TDL eViewPlus

Provides the most accurate requesting option for clinics who don't have a practice management system. As well as producing QR coded forms to accompany samples to the laboratory, registered users of this secure Login/Password protected system can request self-collection kits to be sent directly to their patients.

eViewPlus users can also view their results online, with cumulative reporting, anytime, anywhere.

For information about eViewPlus please contact **eviewplus@tdlpathology.com**.

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Infection Sciences

TEST	CODE	SAMPLE REQS	TAT	PRICE
16S rRNA Bacterial Gene	16S	**J**	1 week	£277.50
18S rRNA Fungal Gene	18S	**J**	1 week	£277.50
Beta D Glucan	XBDG	(B)	3 days	£130.50
Blood Culture#	BCUL	2 x **BC** [4]	6 days +	£100.00
# Please contact Phlebotomy at Patient Reception 020 7307 7383 for further details, as needed. Blood cultures must be taken prior to any other blood samples. The aerobic bottle must be collected first, followed by the anaerobic bottle. Each bottle should be filled with 8-10 ml of blood, use the markings on the bottles to achieve this. • Other bloods can be collected but must be collected after the blood cultures. • Bottles must be labelled with the patient's identification details. • Bottles and Request Form need to give the time taken and the body site that the blood was taken from. Ensure that the bottle barcodes are not obscured when adding patient labels. • Send the blood cultures to the laboratory without delay.				
Candida (Culture for ID Only)	CANC	**STM/CS**	2-4 days	£81.00
Candida (Culture for ID + Sensitivities)	CAND	**STM/CS**	2-4 days	£81.00
Candida auris Screen	CANS	**STM/CS**	2-4 days	£103.00
Carbapenemase producing organism screen ‡ Presumptive positive isolates will be sent to the UKHSA reference laboratory for confirmation.	MDR	**STM** (rectal)	4-5 days ‡	£116.50
Clostridium Difficile Toxin by PCR * Not performed on formed stool specimens.	CLOS	**RF***	2 days	£103.00
Cryptococcal Antigen	CRYC	**Serum** or **CSF**	1 day	£100.00
Cryptosporidium	OCP	**RF**	2 days	£81.00
CSF for Microscopy and Culture	CSF	1.5ml **CSF**	1-3 days	£89.50
Fluid Culture Specify sample site and sterility of sample collection.	FLUD	**SC**	2-7 days	£115.50
Fungal investigations (non-superficial extended culture) Please send in a dermaPak where possible.	FUN	All specimens other than Skin, Hair and Nails	3-21 days	£81.00
Fungal investigations (superficial/ dermatophyte PCR test)	DERM	Skin, Hair, Nails	3-7 days	£81.00
Galactomanan (Aspergillus Antigen)	SGAL	(B)	2 weeks	£165.50
Gonorrhoea Culture – Cervix ‡ ‡ ‡ The optimal sample type from the female genital tract is an endocervical swab. Gonorrhoea does not survive well outside the endocervical epithelium; a negative gonorrhoea culture result from a vaginal swab is not reliable for excluding infection.	GONC	**CS** ‡‡‡	3-5 days	£81.00
Gonorrhoea Culture – Rectal	GONR	**CS**	3-5 days	£81.00
Gonorrhoea Culture – Throat	GONT	**CS**	3-5 days	£81.00
Gonorrhoea Culture – Urethral	GONU	**CS**	3-5 days	£81.00
Gonorrhoea Culture – Other site	GONO	**CS**	3-5 days	£81.00
Group B Strep – Vaginal and Rectal (Self-collect)	GBSX	Blue gel Amies swab x2	3-5 days	£55.00

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TEST	CODE	SAMPLE REQS	TAT	PRICE
Group B Strep – Vaginal and Rectal (STM)	GBSX	2 x **STM**	3-5 days	£55.00
H. pylori Antigen – Stool (RF)	HBAG	**RF**	3 days	£81.00
H. pylori Antigen – Stool (Self-collect)	HBAG	Stool/faecal container	3 days	£81.00
H. pylori Culture	HPCU	**J**	1 month	£219.50
Histoplasma Antigen Fresh urine less than 24 hours, directly to Mycology.	HANT	**RU**	3 days	£176.00
HVS	HVS	**STM/CS**	2-4 days	£81.00
IUCD for Culture	IUCD	Send Device	11-12 days	£81.00
Legionella Urine Antigen	LEGA	Urine with boric acid	1 day	£104.00
MRSA (Rapid PCR) one swab per site	MRSA	Blue liquid Amies swab	1 day	£77.50
MRSA (Rapid PCR) one swab per site x 2	MRS2	Blue liquid Amies swab x 2	1 day	£154.50
MRSA Culture one swab per site	MRSW	Blue liquid Amies swab	2 days	£55.50
MRSA Culture one swab per site x 2	MRW2	Blue liquid Amies swab x 2	2 days	£110.50
MRSA Culture (Self-collect) – Nose/Groin	MRW2	Purple liquid Amies swab x2	2 days	£110.50
MRSA PCR (Self-collect) – Nose/Groin	MRS2	Purple liquid Amies swab x2	1 day	£154.50
Pleural Fluid for Culture	FLUP	**SC**	7 days	£115.50
Pneumococcal Antigen	PNAG	Urine with boric acid	1 day	£105.00
Pneumocystis jiroveci (PJP) PCR ‡ ‡ BAL: Induced sputum or bronchoalveolar larage.	MPCP	**SC BAL**‡‡	2-3 days	£105.00
Rapid Strep PCR (incl. m/c/s) ** Do not use a black swab for RAPS. Use Blue only. Rapid PCR is reported within 4 hours with full culture to follow.	RAPS	Blue liquid Amies swab**	1-3 days**	£83.50
Schistosoma (Urine)	USCH	Mid-morning terminal urine following exercise[14]	1-2 days	£73.50
Sellotape Test *** Use clear Sellotape only and attach to slide.	SELL	Send Sample***	1 day	£84.00
Semen Culture	SPCU	**Semen**	2-4 days	£81.00
Skin Scrapings/Mycology by PCR	DERM	Send Sample	3-7 days	£81.00
Sputum for Routine Culture	SPU1	**SC**	2-4 days	£89.50
Sputum for TB Culture (AFB)	SPU2	**SC**	up to 8 weeks	£89.50
Stool for OCP and Culture by PCR † † Please provide relevant travel history. If travel history is not provided, stool will be investigated for endemic pathogens only [Campylobacter, Salmonella, Shigella, Shigatoxin-producing E coli (VTEC), Cryptosporidium and Giardia]. Unless relevant clinical details are provided MOCP will not be done.	PENT	**RF**††	2-3 days	£81.00

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See page 25 for sample-taking and special handling instructions.

Infection Sciences

TEST	CODE	SAMPLE REQS	TAT	PRICE
Stool for OVA Cysts & Parasites by Microscopy	MOCP	**RF**	2 days	£42.00
Stool Reducing Substances	STRS	**RF**[7]	2-3 weeks	£55.00
Swab (Cervical)	CERS	**STM** / **CS**	2-4 days	£81.00
Swab (Ear) Includes fungal culture over 7 days.	EARS	**STM**	2-4 days (Culture) 8-9 days (Fungal) – same swab	£81.00
Swab (Eye)	EYES	**STM**	2-4 days	£81.00
Swab (Nasal)	NASS	**STM**	2-4 days	£81.00
Swab (Oral)	ORSW	**STM**/**CS**	2-4 days	£81.00
Swab (Penile)	PENS	**STM**/**CS**	2-4 days	£81.00
Swab (Rectal)	RECG	**STM**/**CS**	2-4 days	£81.00
Swab (Skin) Specify sample site swab taken from.	SKIS	**STM**	2-4 days	£81.00
Swab (Throat)	THRS	**STM**	2-4 days	£81.00
Swab (Urethral)	URES	**STM**/**CS**	2-4 days	£81.00
Swab (Vaginal)	VAGS	**STM**/**CS**	2-4 days	£81.00
Swab (Vulval)	VULV	**STM**/**CS**	2-4 days	£81.00
Swab (Wound) Specify sample site.	WOUS	**STM**	2-4 days	£81.00
Synovial Fluid (for microscopy, crystals and culture) † † † If prosthetic joint is present please state in clinical details to ensure that enrichment culture is prolonged for 14 days.	FLU2	**SC** †††	14 days	£136.50
TB (Pleural Fluid)	TBCU	**SC**	up to 8 weeks	£89.50
TB Culture	SPU2	**SC**	up to 8 weeks	£89.50
TB Culture (Urine)	TBUR	3 x **EMU**	up to 8 weeks	£189.00
TB PCR (PCR detection of Mycobacterium tuberculosis complex and mutations for Rifampicin resistance) This test is automatically added if the direct auramine microscopy is positive on AFB culture requests and no known previous history.	TBPC	All samples except blood cultures and urine, as clinically requested.	1 day	£199.00
TB Slopes – Confirmation and Sensitivity	TBSL	**TB slope** (LJ medium-green)[6]	up to 8 weeks	£210.00
Tissue for culture Specify sample site.	TISS	**Tissue sample**	up to 14 days	£89.50
Urine (Microscopy Only)	UMIC	**RU**	1 day	£52.50
Urine Chemistry and Microscopy (Self-collect)	UMIC	Urine (Universal). Mid stream.	1-2 days	£52.50

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Urine Chemistry, Microscopy and Culture (Self-collect)	**UCEM**	Urine (Universal & Boric). Mid stream.	1-2 days	£68.50
Urine for Extended Culture	**UCXD**	**MSU** ††††	up to 7 days	£147.00
† † † † Optimal sample type for urine culture is a mid-stream clean catch urine sent in a sterile pot containing boric acid preservative. Testing must be done within 24 hours due to stability.				
Urine for Microscopy and Culture	**UCEM**	**MSU** ††††	1-2 days	£68.50
† † † † Optimal sample type for urine culture is a mid-stream clean catch urine sent in a sterile pot containing boric acid preservative.				

Urine culture processing and results

All urine culture testing is performed using manual methods. The culture pathway adheres to national guidance and is a fully UKAS-accredited method.

Manual testing allows a larger amount of urine to be tested than previous automated method, which enables the laboratory to detect lower bacterial counts (as low as 103 cfu/mL) and also facilitates the follow up of significant organisms grown from mixed cultures.

If the culture result is indicative of urinary tract infection, antibiotic susceptibilities will be tested from the culture growth and will be available 24 hours after the culture result. 'Direct sensitivities' are no longer performed. Direct susceptibility testing is not inoculum-controlled, produces inaccurate results and is not UKAS-accredited.

Culture results should be interpreted alongside the microscopy WBC count and clinical signs and symptoms. Significant growth on culture in the absence of pyuria may be suggestive of contamination with regional flora rather than true infection. It should be noted, however, that WBC degrade in urine quite rapidly and delays between sample collection and microscopy may lead to falsely low WBC readings which may account for these findings.

What does the result 'No significant growth' mean?

The amount of growth falls below the threshold for urinary tract infection (< 103 cfu/mL). There is no laboratory evidence of urinary tract infection. Occasionally, this may be seen in very early stages of infection or in a partially treated urinary tract infection. Therefore, please send a repeat specimen if symptoms persist.

What does the result 'mixed growth doubtful significance' mean?

This means that the culture revealed a heavy growth of at least 3 organisms with no predominating organism; this represents contamination of the urine with the patient's flora during collection.

This result does not exclude urinary tract infection but it is not possible to determine the causative organism among the mixture of organisms.

If symptoms persist, please send a repeat urine specimen and ensure that patient understands optimal collection technique.

If you are receiving a lot of 'mixed growth of doubtful significance' results, please consider the following:

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

- **The instructions that patients are given to collect their urine sample**
  Poor collection technique is the most common reason for a heavily mixed growth in a urine sample. It is almost impossible to collect a urine sample without any contamination from the normal bacterial flora which inhabits the area surrounding the urethral opening, but optimal collection technique will minimise this contamination and allow the true infective cause to stand out and be identified (a patient instruction leaflet is available).
- **Delays between sample collection and laboratory processing**
  The time between sample collection and laboratory processing can allow small amounts of contaminating bacterial flora to multiply up to higher amounts prior to laboratory testing, which can result in heavy mixed growth of bacteria on culture. Using a red topped specimen pot containing boric acid preservative will minimise this.

If, despite these measures, a patient has recurrent mixed growth reports from multiple urines, it may suggest that your patient has abnormal urinary tract architecture, immunosuppression or other non-infective cause that requires different laboratory investigations or referral to a specialist. If further information is required, please telephone the laboratory and ask to discuss the case with one of our consultant Microbiologists.

Red topped boric acid containers

The preservative reduces the overgrowth of organisms and, to a lesser extent, reduces the degradation of white cells during transit leading to a more accurate laboratory result for both microscopy and culture. UKAS recommends the use of boric acid containers for all urine sample for microscopy and culture (Urine M,C&S) to improve the quality of microbiological results.

Red topped boric acid containers are for requests for urine microscopy and culture (MC&S) ONLY. Boric acid container should NOT be used for:

- Other urine microbiology tests (e.g. investigations for Chlamydia, Mycobacterium, Schistosomiasis, urinary antigen testing)
- Urine samples being analysed by PCR methodology
- Urine samples for non-microbiology tests (e.g. biochemistry, virology, pregnancy testing)
- Very small urine volumes (<20ml) e.g. neonates

Use of urinary dipsticks: boric acid may inhibit leukocyte esterase dipstick readings; dipstick testing performed on a sample in a boric acid container should be interpreted with caution.

If additional tests are required in addition to urine microscopy and culture, an additional sample in a white-topped universal container should be sent. In this case, it is advised that the mid-stream clean catch urine is collected in a sterile bowl and then transferred to the necessary specimen containers.

Group B Streptococcus (GBS)

Group B Streptococcus (GBS or group B Strep) is the most common cause of severe infection in newborn babies, and of meningitis in babies under age 3 months. On average in the UK:

- 2 babies a day develop group B Strep infection
- 1 baby a week dies from group B Strep infection
- 1 baby a week survives group B Strep infection with long term disability

Most GBS infection is of early onset, presenting in babies within the first 6 days of life, and usually within the first 12 hours after birth. Between age 7 days and 3 months, these infections are rare, and in babies over 3 months they are very rare indeed.

Most early-onset GBS infections (in babies aged 0-6 days) can be prevented by giving intravenous antibiotics in labour to women whose babies are at raised risk of developing GBS infection. In the UK, women are offered IV antibiotics in labour based on specific risk factors.

GBS is normal flora of the distal GI tract. Up to 30% of women carry it harmlessly in their vaginal tract. Vaginal carriage at the time of vaginal delivery can result in transmission of GBS to baby. Babies are more vulnerable to infection as their immature immune systems cannot fight off the multiplying bacteria. If untreated, GBS can cause serious infections, such as meningitis and septicaemia, which may lead to stillbirths, and newborn and infant deaths. If they survive, babies can develop permanent problems including hearing or vision loss, or cerebral palsy.

Current GBS prevention focuses on giving intravenous antibiotics to women in labour, aiming to reduce disease in infants at delivery. 2 x **Blue culture swabs** (lower vaginal and lower rectal) should ideally be taken from 35 weeks. Swabs will be placed in enrichment culture in the microbiology laboratory to ensure maximal detection.

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Swabs: Types and Codes

Patient Request Forms and **Swabs** must be labelled with the body site from which the sample was taken. **This is important**. The swab site determines the appropriate culture media required to target the most likely pathogens.

Culture Swabs

SITE	CODE	SAMPLE TYPE
Candida only swab	**CANC**	**Black** or **Blue** Micro Swab
Cervical swab	**CERS**	**Black** or **Blue** Micro Swab
Ear swab	**EARS**	**Blue** or **Orange** Micro Swab
Eye swab	**EYES**	**Blue** or **Orange** Micro Swab
Gonorrhoea	**GONN**	**Black** Charcoal Swab (specify site)
High vaginal swab	**HVS**	**Black** or **Blue** Micro Swab
Nasal swab	**NASS**	**Blue** or **Orange** Micro Swab
Oral swab	**ORSW**	**Black** or **Blue** Micro Swab
Penile swab	**PENS**	**Black** or **Orange** Micro Swab
Rectal swab	**RECG**	**Black** or **Blue** Micro Swab
Skin swab	**SKIS**	**Blue** Micro Swab
Throat swab	**THRS**	**Blue** Micro Swab
Urethral swab	**URES**	**Orange** Micro Swab or **Orange** Charcoal Swab
Vaginal swab	**VAGS**	**Black** or **Blue** Micro Swab
Vulval swab	**VULV**	**Black** or **Blue** Micro Swab
Wound swab	**WOUS**	**Black** or **Blue** Micro Swab (specify site)

MRSA by Culture

CODE	SAMPLE TYPE
MRSW	**Blue** Micro Swab x 1 – state site
MRW2	**Blue** Micro Swab x 2 – state sites

Order code: **MW170**
Dark Blue Microbiology Swab (Culture)

Order code: **MW171**
Black Charcoal Microbiology Swab (Culture)

Rapid MRSA by PCR

CODE	SAMPLE TYPE
MRSA	**Blue** Micro Swab x 1 – state site
MRS2	**Blue** Micro Swab x 2 – state sites

Order code: **MW172C**
Orange Wire Shaft Microbiology Swab (Charcoal

Order code: **MW172P**
Orange Wire Shaft Microbiology Swab (Culture)

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

PCR Swabs

SITE	CODE	SAMPLE TYPE
Chlamydia – PCR Swab	SPCR	**PCR** Swab: **Aptima** Swab
Chlamydia/Gonorrhoea – PCR Swab	SCG	**PCR** Swab: **Aptima** Swab
Chlamydia/Gonorrhoea – Rectal	RSCG	**PCR** Swab: **Aptima** Swab
Chlamydia/Gonorrhoea – Throat	TSCG	**PCR** Swab: **Aptima** Swab
Chlamydia/Gonorrhoea/Trichomonas – PCR Swab	SCGT	**PCR** Swab: **Aptima** Swab
CT/GC/Trichomonas/Mgen – PCR Swab	SGTM	**PCR** Swab: **Aptima** Swab
Gardnerella vaginalis by PCR	GVPC	**PCR** Swab: **Aptima** Swab
Gonorrhoea – PCR Swab	SGON	**PCR** Swab: **Aptima** Swab
Haemophilus ducreyi by PCR	DUCR	**PCR** Swab: **Aptima** or **Green** Swab
Herpes Simplex (HSV) 1 & 2 (PCR/Self-collect) (Oral or Genital)	HERS	**PCR** Swab: **Aptima** or **Green** Swab
HPV (Individually typed low & high risk DNA subtypes)	HP20	**PCR** Swab / **Qvintip** (HPV kit)
Lymphogranuloma Venerium (LGV) (PCR)	LGVP	**PCR** Swab: **Aptima** Swab
Macrolide Resistance Test (Mgen)	MGR	**PCR** Swab: **Aptima** Swab
Mpox Virus – Lesion	MPXV	**PCR** Swab: **Aptima** Swab
Mycoplasma genitalium by PCR	MGEN	**PCR** Swab: **Aptima** Swab
Mycoplasma genitalium/ Ureaplasma by PCR	MUPC	**PCR** Swab: **Aptima** Swab
Syphilis by PCR (chancre)	SYPS	**PCR** Swab: **Aptima** or **Green** Swab
Trichomonas vaginalis	TVPC	**PCR** Swab: **Aptima** Swab
Ureaplasma urealyticum by PCR	UGEN	**PCR** Swab: **Aptima** Swab
Vaginitis/BV Profile (Culture & PCR/Self-collect)	STD8	**PCR** Swab: **Aptima** Swab and **Blue** or **Orange** Micro Swab
Viral Respiratory RNA Screen by PCR	VPR	**PCR** Swab: **Aptima** or **Green** Swab
COVID-19 (SARS-CoV-2) RNA by PCR	NCOV	**PCR** Swab: **Aptima** or **Green** Swab
Whooping Cough (Pertussis) by PCR	PERP	**Orange** **PCR** Swab / Prenasal (posterior nasopharynx) Swab

Order code: **MW142**
Orange Aluminium Wire Dry Microbiology Swab (PCR)

Order code: **MW951S**
Green Sigma Virocult Swab and Vial (PCR)

Order code: **PRD-03546**
Aptima Multitest Swab Specimen Collection Kit

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

PCR methods for the detection of Dermatophyte Fungal Cultures

The detection of Dermatophyte fungal cultures uses High Sensitivity PCR testing. This reduces the overall turnaround time by up to three weeks, and increases the detection of fungal infection compared to combined microscopy and culture. Furthermore the specific targeting pathogens associated with superficial fungal infection is increased which assists in preventing the over reporting of insignificant fungi that are contaminants.

Fungal test codes

	Investigation of Superficial Fungal Infection	Investigation of Non-Superficial Fungal Infection
Test code	DERM*	FUN*
Sample type	Skin, Hair and Nail.	All specimens other than Skin, Hair and Nail.
Turnaround time	72 hours for interim PCR report, and 7 days for final culture (unless the fungal culture needs to be extended for significant growth).	7 days (non-sterile e.g. ear swab) and 3 weeks (sterile i.e. CSF).
Notes	• Dermatophyte PCR has replaced microscopy for Skin, Hair and Nail (72 Hour TAT). • Non-dermatophyte culture will take 7 days. • Microscopy is carried out to confirm significance of rare fungi. • Pseudomonas investigation in Nail specimens is available on request.	• Non-sterile specimen fungal cultures are performed on Sabouraud's agar plates for 7 days with no microscopy. • Sterile specimen fungal cultures have microscopy (Calcafluor) reported on the day of processing and culture on a Sabouraud's agar slope, incubated for 21 days.

Stool test codes

Traditional culture methods have been replaced by Real Time PCR for enteric pathogen testing. The benefits are increased sensitivity and a higher detection rate. Once received and processed in the microbiology lab, negative results will be available within 24 hours. Positive results will be followed up with culture and sensitivities for final reporting.

Stool OCP and Culture

Sample type		Comments
Stool	Please request as **PENT** Serosep EntericBio PCR **Bacteria/Bacterial Toxins** • Salmonella • Campylobacter • Shigella • VTEC **Parasites** • Cryptosporidium • Giardia	All stool samples will be tested for UK Pathogens. Overseas pathogens will only be tested if specifically requested and travel history and clinical details are provided. Samples that are positive for the bacterial pathogens will be cultured to provide sensitivities and, if indicated, for PHE referral. Samples will be kept for 7 days after receipt to allow for additional testing if required.

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Stool for OCP

Sample type		Comments
Stool	Please request as **MOCP** Requests for MOCP only will include testing for cryptosporidium and giardia by PCR	Overseas pathogens will only be tested if requested and travel history and clinical details are provided.

C. Difficile detection

Sample type		Comments
Stool	Please request as **CLOS** Serosep Enteric Bio PCR Alere Techlab EIA (Toxin)	Two tier PCR and Toxin c.diff screening based on PHE guidance.

Enteric Organism Rapid Detection – see Tropical Immunology page 93

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Endocrinology

TEST	CODE	SAMPLE REQS	TAT	PRICE
11 Deoxycorticosterone	DEOX	B	10 days	£128.50
11 Deoxycortisol	11DC	B (Frozen)	10 days	£195.00
17 Hydroxyprogesterone	17OH	B	5 days	£120.00
ACTH (Adrenocorticotropic Hormone)	ACTH	A (EDTA on ice, Plasma, spun and frozen within 2 hours)[41]	1 day	£140.00
Aldosterone	ALDN	A or B	5 days	£138.00
Aldosterone (Urine)	UALD	**PU**	5 days	£140.00
Alpha-Fetoprotein	AFP	B	1 day	£60.00
Amenorrhoea Profile (LH, FSH, PROL, TEST, TOES, SHBG, FAI) (Self-collect) CHANGE LH, FSH, PROL, TEST, TOES and SHBG now also available individually from a F (TDL Tiny) sample. Avoid taking samples from any area an HRT cream is applied.	TAME	F (TDL Tiny)	1 day	£150.00
Amenorrhoea Profile (Venous)	AMEN	B	1 day	£150.00
Andropause Profile	ANDP	B B	1 day	£185.00
Androstenedione	ANDR	B	5 days	£94.50
Antidiuretic Hormone	ADH	A A (Plasma Frozen)[4]	10 days	£163.50
Antimullerian Hormone (AMH) (Self-collect)	AMH	B (TDL Tiny) or F (TDL Tiny)	1 day	£130.50
Antimullerian Hormone (AMH) (Venous) Samples can be taken, at any time during a patient's monthly cycle. Ambient, unspun sample stability has been validated for up to 5 days (Venous).	AMH	B	1 day	£130.50
BNP (NT-pro BNP)	BNP	B	1 day	£94.50
C Peptide	CPEP	B	3 days	£134.00
Calcitonin	CATO	B (Frozen)[4]	1 day	£139.00
Catecholamines (Plasma)	CATE	A A (Plasma Frozen)[4]	5 days	£124.00
Catecholamines (Urine)	UCAT	**PU** (collect on acid)[1]	5 days	£157.50
Cortisol (Self-collect)	CORT	B (TDL Tiny)	1 day	£57.50
Cortisol (Urine)	UCOR	**CU**	5 days	£78.50
Cortisol (Venous)	CORT	B	1 day	£57.50
DHEA	DHEX	B	7-10 days	£142.50
DHEA – Urine (Dehydroepiandrosterone)	UDHE	**CU**	3 weeks	£103.50
DHEA Sulphate (Self-collect)	DHEA	B (TDL Tiny) or F (TDL Tiny)	1 day	£83.50
DHEA Sulphate (Venous)	DHEA	B	1 day	£83.50
Dihydrotestosterone	DHT	B B	7 days	£135.00
Down Syndrome Risk Bloods only (Risk to be calculated by clinician)	HCGF/ PAPA	B	1 day	£91.00
Down Syndrome Risk Profile (2nd trimester) Quad	DRP	B DRP form[7,8]	5 days	£223.00

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Endocrinology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Down Syndrome Risk Profile with risk calculation first trimester	DRP	B DRP form + image of scan[7,8]	5 days	£223.00
Erectile Dysfunction Profile Please clearly state fasting or non-fasting status.	IMPO	A B B G	3 days	£245.00
Fasting Insulin Resistance Index (FIRI) Both samples taken at the same time and must be fasting. Please indicate fasting status clearly on request form.	FIRI	B G	1 day	£86.00
Female Hormone Profile (LH, FSH, PROL, TOES) (Self-collect) Avoid taking samples from any area an HRT cream is applied.	TFIP	F (TDL Tiny) and B (TDL Tiny)	1 day	£150.00
Female Hormone Profile (Venous)	FIP	B	1 day	£150.00
First Trimester Maternal Screen (PAPP-A/Free Beta-hCG) (Risk to be calculated by requesting clinician)	FTMS	B	1 day	£91.00
Free T3 (Self-collect)	FT3	B (TDL Tiny)	1 day	£55.00
Free T3 (Venous)	FT3	B	1 day	£55.00
Free T4 (Self-collect)	FT4	B (TDL Tiny)	1 day	£55.00
Free T4 (Venous)	FT4	B	1 day	£55.00
FSH (Self-collect)	FSH	B (TDL Tiny) or F (TDL Tiny)	1 day	£55.00
FSH (Venous)	FSH	B	1 day	£55.00
Growth Hormone (Fasting)	GH	B [7,35]	1 day	£62.50
Gut Hormone Profile	GUTP	A A (Frozen within 15 minutes)[41]	3 weeks	£367.00
HCG (Quantitative) (Self-collect)	QHCG	B (TDL Tiny)	1 day	£61.00
HCG (Quantitative) (Venous)	QHCG	B	1 day	£61.00
Hirsutism Profile	HIRP	B	1 day	£185.00
HRT Profile 1	HRT	B	1 day	£113.00
HRT Profile 2 Please clearly state fasting or non-fasting status.	HRT2	B G	1 day	£172.00
IGF-1 (Somatomedin)	SOMA	B (Frozen)[4,7]	1 day	£98.50
IGF-BP3	IGF3	B (Frozen)[4]	5 days	£120.00
Impotence Profile	IMPO	A B B G	3 days	£245.00
Inhibin A	INIA	B	1 month	£169.00
Inhibin B	INIB	B (Day 3 of cycle, frozen)	5 days	£150.00
Insulin	INSU	B [4,7]	1 day	£60.00
Luteinising Hormone (LH) (Self-collect)	LH	B (TDL Tiny) or F (TDL Tiny)	1 day	£55.00
Luteinising Hormone (LH) (Venous)	LH	B	1 day	£55.00
Macroprolactin	PRLD	B	4 days	£260.00

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Endocrinology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Male Hormone Profile	MIPR	B	1 day	£184.00
Melatonin (Serum)	MEL	B (Frozen)	5 days	£102.50
Melatonin (Urine)	UMEL	**CU** [13]	2 weeks	£145.00
Menopausal Profile (FSH, LH, TOES, TSH, FT4) (Self-collect) Avoid taking samples from any area an HRT cream is applied.	TMEN	F (TDL Tiny) and B (TDL Tiny)	1 day	£150.00
Menopause Profile (Venous)	MENO	B	1 day	£150.00
Metabolic Syndrome Profile Please clearly state fasting or non-fasting status.	METS	A B B G	9 days	£299.50
Metanephrines (Plasma) Must be frozen within 2 hours.	PMET	A (Frozen plasma, must be frozen within 2 hours)	7 days	£180.50
Metanephrines (Urine)	UMEX	**PU** (collect on acid)[1]	5 days	£150.00
Oestradiol-17-Beta (Self-collect)	TOES	F (TDL Tiny)	1 day	£55.00
Oestradiol-17-Beta (Venous)	OEST	B	1 day	£55.00
Oestriol (Estriol)	E3	B B	4 days	£107.00
Oestrone	E1	B B	4 days	£107.00
Osteocalcin	OST	B (Frozen)[4]	4 days	£216.00
Parathyroid Hormone (Whole) Requires its own EDTA tube, if other tests require EDTA an extra EDTA sample should be taken for PTHI.	PTHI	A [4]	1 day	£125.50
Pituitary Function Profile	PITF	B B [7]	1 day	£204.00
Polycystic Ovary Syndrome Profile Please clearly state fasting or non-fasting status.	PCOP	A B B B G [7]	5 days	£578.50
Polycystic Ovary Syndrome SHORT Please clearly state fasting or non-fasting status.	PCOS	A B G	1 day	£184.00
Pregnancy (Serum) [Quantitative]	QHCG	B	1 day	£61.00
Pregnenolone	PREN	B	15 days	£124.00
Progesterone (Self-collect) Avoid taking samples from any area an HRT cream is applied.	PROG	B (TDL Tiny) or F (TDL Tiny)	1 day	£55.00
Progesterone (Venous)	PROG	B	1 day	£55.00
Proinsulin	PROI	A (Frozen plasma)[4]	5 days	£249.50
Prolactin (Macro)	PRLD	B	4 days	£260.00
Prolactin (Self-collect)	PROL	B (TDL Tiny) or F (TDL Tiny)	1 day	£55.00
Prolactin (Venous)	PROL	B	1 day	£55.00
Renin	RENI	A (Frozen plasma)[36]	5 days	£134.00
Reverse T3	RT3	B [7,37]	15 days	£136.00
Serotonin	SERT	H H (Frozen whole blood)[1]	10 days	£135.00

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Endocrinology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Serotonin (Urine)	USER	**PU** 50mls (Frozen)[1]	5 days	£161.00
Sex Hormone Binding Globulin (Self-collect)	SHBG	B (TDL Tiny) or F (TDL Tiny)	1 day	£65.50
Sex Hormone Binding Globulin (Venous)	SHBG	B	1 day	£65.50
Somatomedin (IGF-1)	SOMA	B (Frozen)[4,7]	1 day	£98.50
T3	T3	B	1 day	£55.00
T3 (Reverse)	RT3	B [7,37]	15 days	£136.00
Testosterone (Self-collect) Avoid taking samples from any area an HRT cream is applied.	TEST	B (TDL Tiny) or F (TDL Tiny)	1 day	£55.00
Testosterone (Total), LC MS Mass Spec NEW	MSTT	B	5-7 days	£113.00
Testosterone (Venous)	TEST	B	1 day	£55.00
Testosterone (Free) (Self-collect) Avoid taking samples from any area an HRT cream is applied.	FTES	B (TDL Tiny) or F (TDL Tiny)	3 days	£113.00
Testosterone (Free) (Venous)	FTES	B	3 days	£113.00
Thyroglobulin Abs	TGAB	B	1 day	£56.50
Thyroglobulin Assay	TGA	B	1 day	£97.00
Thyroid Abs (Thyroglobulin + Thyroid Peroxidase Abs) (Self-collect)	THAB	B (TDL Tiny)	2 days	£92.00
Thyroid Abs (Thyroglobulin + Thyroid Peroxidase Abs) (Venous)	THAB	B	1 day	£92.00
Thyroid Peroxidase Antibodies/Anti TPO	TPEX	B	1 day	£56.50
Thyroid Profile 1 (FT4/TSH) (Self-collect)	TF	B (TDL Tiny)	1 day	£77.00
Thyroid Profile 1 (FT4/TSH) (Venous)	TF	B	1 day	£77.00
Thyroid Profile 2 (Venous)	TF2	B	2 days	£184.00
Thyroid Profile 3 (FT3/FT4/TSH) (Self-collect)	TF3	B (TDL Tiny)	1 day	£109.50
Thyroid Profile 3 (FT3/FT4/TSH) (Venous)	TF3	B	1 day	£109.50
Thyroxine (T4)	T4	B	1 day	£50.50
Thyroxine Binding Globulin	TBG	B (Frozen)	10 days	£128.50
Total Testosterone, LC MS Mass Spec NEW	MSTT	B	5-7 days	£113.00
TSH (Self-collect)	TSH	B (TDL Tiny)	1 day	£55.00
TSH (Venous)	TSH	B	1 day	£55.00
TSH-Receptor Antibodies	TSI	B	4 days	£165.50
Ziwig Endotest® For information about this test and to order kits please contact endotest@tdlpathology.com. The quality of the saliva sample collection is important. Samples can be collected in the clinic or at home following instructions provided.	ENDT	Endotest saliva collection kit	25 days	£850.00

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Reproductive Immunology at Rosalind Franklin Laboratory, Chicago, USA

TEST	CODE	SAMPLE REQS	TAT	PRICE
Reproductive Immunophenotype Panel	3RF	H H H	1 week	£420.00
NK Assay/Cytotoxicity Panel	4RF	H H H	1 week	£495.00
NK Assay Follow-Up Panel	5RF	H H H	1 week	£420.00
TH1/TH2 Cytokine Ratio	6RF	H H H [5]	1 week	£388.00
Leucocyte Antibody Detection Panel MALE	7RF	H H H [6,34]	1 week	£0.00 (No charge)
Leucocyte Antibody Detection Panel FEMALE	8RF	B	1 week	£236.00
HLA DR Antigens	9RF	A A	2 weeks	£236.00
HLA DQ Alpha Antigens	10RF	A A	2 weeks	£192.00
HLA DQ Beta Antigens	11RF	A A	2 weeks	£192.00
HLA A, B, C	14RF	A A	2 weeks	£293.50
NK Assay Panel + Intralipids	16RF	H H H	1 week	£616.50
KIR (Killer-like Immunoglobulin-like Receptors) Genotyping	17RF	A A A	2-3 weeks	£388.00
TH1/TH2 Intracellular Cytokine Ratios with IVIG, Prednisolone	20RF	H H H [5]	1 week	£813.00
TH1/TH2 Intracellular Cytokine Ratios with IVIG	21RF	H H H [5]	1 week	£650.50
TH1/TH2 Intracellular Cytokine Ratios with Prednisolone	22RF	H H H [5]	1 week	£650.50
T Regulatory Cells	25RF	H	3 days	£601.50
HLA-C	26RF	A A	2 weeks	£191.50
Decidualization Score (DS)	DSRF	**J** (Contact Referrals)	2-3 weeks	£639.00
PAI-1 4G/5G Polymorphism	PAIP	A	10 days	£207.50

Patients who have samples taken at TDL's Patient Reception at 76 Wimpole Street may attend any time during hours of opening on Mondays or Tuesdays, and by NOON on Wednesdays to allow for same day shipping to Chicago by Fed Ex. Samples for Rosalind Franklin are not accepted on Thursdays, Fridays or Saturdays. Fed Ex charges are included in these charges.

Reproductive Immunology from St Helier

TEST	CODE	SAMPLE REQS	TAT	PRICE
NK (CD69) Cell Assay	CD69	H*	Send Mon-Thurs only	£282.50
NK (CD69) and NK Cytotoxicity	69C	HHH*	Send Mon-Thurs only	£783.00
NK Cytotoxicity Assay	HSNK	HHH*	Send Mon-Thurs only	£661.00
NK Cytotoxicity with suppression with steroid, IVIg and intralipin, and NK (CD69) cell assay	69CI	HHH*	Send Mon-Thurs only	£920.50
NK Cytotoxicity with suppression, steroid, IVIg & Intralipin	NKCY	HHH*	Send Mon-Thurs only	£843.50
Suppression with steroid, IVIg and intralipin, NK (CD69) cell assay, TH1/TH2 cytokines	NCIT	HHHH*	Send Mon-Thurs only	£1,058.00
TH1/TH2 Cytokine Profile	1TH2	HHH*	Send Mon-Thurs only	£374.50

Patients need to attend Patient Reception at 76 Wimpole Street by 11.00am latest Mondays – Thursdays. Samples cannot be accepted on Fridays, Saturdays or Sundays. Allow 2 days for results.

Amenorrhoea Profile (Venous)

Luteinising Hormone (LH)
FSH
Prolactin
Testosterone
Oestradiol-17-Beta
Sex Hormone Binding Globulin (SHBG)
Free Androgen Index

TAT: 1 day

AMEN £150.00

B

Andropause Profile

DHEA Sulphate
FSH
Testosterone
Free Androgen Index
Luteinising Hormone (LH)
Sex Hormone Binding Globulin (SHBG)

TAT: 1 day

ANDP £185.00

BB

Female Hormone Profile (Venous)

Luteinising Hormone (LH)
FSH
Prolactin
Oestradiol-17-Beta

TAT: 1 day

FIP £150.00

B

Erectile Dysfunction Profile

Lipid Profile
Glucose
HbA1c
Free T4 / TSH
Prolactin
Total Testosterone
Free Testosterone
PSA
Sex Hormone Binding Globulin (SHBG)
Free Androgen Index

Please clearly state fasting or non-fasting status.

TAT: 3 days

IMPO £245.00

ABBG

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

First Trimester Maternal Screen (PAPP-A/ Free Beta-hCG) (Risk to be calculated by requesting clinician)

Free β-hCG
PAPP-A

Free β-hCG and PAPP-A in serum and sonographic determination of nuchal translucency (NT) are markers of choice to identify women at increased risk of Down Syndrome during the first trimester (week 11-13) of pregnancy.

TAT: 1 day

FTMS	£91.00

B

Hirsutism Profile

DHEA sulphate
FSH
Luteinising Hormone (LH)
Sex Hormone Binding Globulin (SHBG)
Testosterone

TAT: 1 day

HIRP	£185.00

B

HRT Profile 1

FSH
Oestradiol-17-Beta
Progesterone

TAT: 1 day

HRT	£113.00

B

HRT Profile 2

Lipid Profile (Cholesterol, Triglycerides, HDL Cholesterol, LDL Cholesterol (Calculated), Non-HDL Cholesterol)
Glucose
Free T4
TSH
FSH
Oestradiol-17-Beta

Please clearly state fasting or non-fasting status.

TAT: 1 day

HRT2	£172.00

B G

Impotence Profile

Lipid Profile
Glucose
HbA1c
TSH
Prolactin
Total Testosterone
Free Testosterone
PSA
Sex Hormone Binding Globulin (SHBG)
Free Androgen Index

Please clearly state fasting or non-fasting status.

TAT: 3 days

IMPO	£245.00

A B B G

Male Hormone Profile

FSH
Luteinising Hormone (LH)
Testosterone
Free Androgen Index
Prolactin
Sex Hormone Binding Globulin (SHBG)

TAT: 1 day

MIPR	£184.00

B

Menopause Profile (Venous)

FSH
Luteinising Hormone (LH)
Oestradiol-17-Beta
Free T4
TSH

TAT: 1 day

MENO	£150.00

B

Metabolic Syndrome Profile

Lipid Profile
Glucose
HbA1c
Insulin
C Reactive Protein (High Sensitivity)
Adiponectin

Please clearly state fasting or non-fasting status.

TAT: 9 days

METS	£299.50

A B B G

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Pituitary Function Profile

TSH
FSH
Luteinising Hormone (LH)
Prolactin
Growth Hormone (Fasting)
Cortisol

Please provide details of time of day sample is taken. Patient should be resting for 30 mins before sample taking.

TAT: 1 day

PITF	£204.00

B B [7]

Polycystic Ovary Syndrome SHORT

Testosterone
Sex Hormone Binding Globulin (SHBG)
Free Androgen Index
FSH
Luteinising Hormone (LH)
Glucose
Insulin
Lipid Profile
Free T4 / TSH
HbA1c

Please clearly state fasting or non-fasting status.

TAT: 1 day

PCOS	£184.00

A B G

Polycystic Ovary Syndrome Profile

Testosterone
TSH
Glucose
HbA1c
FSH
DHEA Sulphate
Insulin
Luteinising Hormone (LH)
17 Hydroxyprogesterone
Lipid Profile
Prolactin
Cortisol
Antimullerian Hormone
Androstenedione
Sex Hormone Binding Globulin (SHBG)

A fasting 9.00am sample is recommended. Please clearly state fasting or non-fasting status.

TAT: 5 days

PCOP	£578.50

A B B B G [7]

Thyroid Profile 1 (FT4/TSH) (Venous)

Free T4
TSH

TAT: 1 day

TF	£77.00

B

Thyroid Profile 2 (Venous)

TSH
Free T3
Free T4
Thyroglobulin Abs
Thyroid Peroxidase

TAT: 2 days

TF2	£184.00

B

Thyroid Profile 3 (FT3/FT4/TSH) (Venous)

Free T3
Free T4
TSH

TAT: 1 day

TF3	£109.50

B

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Ziwig Endotest®

Ziwig Endotest® is a new non-invasive diagnostic test for reliable and rapid diagnosis for all types of endometriosis. The test relies on Next Generation Sequencing of micro RNA present in saliva and on the use of Artificial Intelligence to process the very large volume of data generated. Ziwig Endotest® is an in vitro diagnostic test for diagnosis of endometriosis on salivary samples with sensitivity 97.4% and specificity 93.7%.

About 10% of all women are affected by endometriosis with average times for diagnosis of around 9 years. Patients not infrequently see up to 10 doctors before being diagnosed with endometriosis (MRI, pelvic ultrasound, laparoscopy). Ziwig Endotest® is able to detect all types of endometriosis, mild and advanced. Endometriosis is not infrequently mistaken for other conditions that can cause pelvic pain, such as pelvic inflammatory disease (PID) or ovarian cysts. The effects of endometriosis range from asymptomatic, often identified during investigations for infertility, to chronic or progressively severe symptomatic related conditions. Once diagnosed, optimised clinical management of endometriosis would apply.

Laparoscopy is the gold standard for diagnosis of endometriosis but is relatively expensive, invasive, and requires an anaesthetic. The saliva sample required for the test is straight forward to collect, non-invasive and provides a definitive diagnosis even in the most complex cases. It has been validated by one of the largest clinical studies in the world.

Ziwig Endotest® provides a Bioinformatics Approach to microRNA sequencing analysis, from saliva.

For access to scientific publications visit: ziwig.com/en/our-publications/

- Clear Positive/Negative result
- Definitive diagnosis for all forms of endometriosis
- Non-invasive, saliva sample
- Cost contained single test outcome

For information about this test and to order kits please contact endotest@tdlpathology.com

The quality of the saliva sample collection is important. Samples can be collected under supervision of a referring clinician or self-collected at home following the instruction video:

www.tdlpathology.com/ziwig-endotest

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

LC MS Mass Spec Total Testosterone NEW

Testosterone must be the world's most discussed hormone, but general understanding about testing is much less well known. Immunoassay methods are widely used to measure testosterone, providing a reliable method of measurement in many use cases. However, whilst this is accepted for standard testing, this methodology carries a possibility of analytical interference and cross-reactivity with structurally similar biological compounds, which can lead to a false, overestimation of circulating testosterone concentration.

Measurement of total testosterone by tandem mass spectrometry (LC-MS/MS) is a methodology with greater specificity, providing a more accurate measurement of testosterone, important when assessing lower levels of testosterone found in females, children and hypogonadal males.

The British Menopause Society recommends LC-MS/MS for the measurement of total testosterone levels, both to exclude high baseline concentrations before treatment is commenced and to ensure that levels remain within the female physiological range when monitoring supplementation (https://thebms.org.uk/wp-content/uploads/2022/12/08-BMS-TfC-Testosterone-replacement-in-menopause-DEC2022-A.pdf)

See page 60 for test information.

Female Reference Ranges		0.7–2.8 nmol/L (normal)
		0–0.7 (low)
Male Reference Ranges	15 years	0.9–2.7 nmol/L
	15–49 years	9.2–55.8 nmol/L
	50+ years	6.3–26.5 nmol/L

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

TDL Andrology

The single most important factor determining a man's fertility potential is the production of healthy sperm. A semen analysis has classically been used as the marker of this potential, by providing information about the sperm count, motility and morphology. However, there are other parameters given in a semen analysis that are often neglected or overlooked, which may indicate important pathologies – such as infection, prostatic disease, immunological infertility, retrograde ejaculation, malformation or obstruction of the genital tract, tumour, and congenital or endocrine disorders.

Early diagnosis of the male factor is important in order to detect any underlying pathology, determine the extent of infertility and ensure appropriate treatment. It may also avoid unnecessary investigations for the female partner, particularly if her age is a limiting factor.

For men who have had a vasectomy, clearance should only be given when there is no evidence of presence of sperm in two consecutive semen samples. It is therefore vital to ensure that results are reported according to best practice guidelines. Special clearance may be given at the doctor's discretion when there are persistent non-motile sperm present.

Guidelines for Producing Samples

Ideally semen samples should be produced on-site at TDL's Patient Reception at 76 Wimpole Street. Ideally patients must abstain from ejaculation for 2-3 days prior to the test, generally no less than 2 days and no longer than 7 days before the test is acceptable. This requirement is important for semen analyses and post vasectomy analyses to ensure reliability of results. It is possible that samples that do not comply with guidelines for abstinence and collection may not be able to be processed. For other semen tests like ROS and DNA fragmentation the abstinence period is minimum 2 days but no more than 3 days. All semen samples must be produced directly into the sterile containers provided by The Doctors Laboratory.

All containers are weighed and batch tested for sperm cytotoxicity. In exceptional circumstances when semen samples are produced off-site, they can only be accepted by the Andrology Department in sample containers provided by TDL.

TDL Andrology provides reference values to those given in the most recent WHO guidelines (2021). WHO 2021 guidelines state that two semen analyses should be performed before any diagnosis is confirmed. This may require requests for two (separate) semen analyses.

Appointments

It is important to make an appointment for all semen samples (on or off site) whether for a comprehensive semen analysis or post vasectomy analysis. It may be necessary to give patients who attend without an appointment a specific time to re-attend. The first appointments for post vasectomy samples should usually be 12 weeks and 20 ejaculations after surgery.

Appointments can be made online at **www.tdlpathology.com/andrologybooking** or by calling **020 7025 7940**. There is an attendance fee of £50.00 in addition to pathology charges.

Please complete a Pathology Request Form for your patient. If you would like to request other pathology, you can use the same form or complete a second additional form. Results will usually be reported to you within 48 hours.

If you would like to discuss these tests, or any aspect of this service including clinical interpretation by the consultant please contact TDL Andrology on **020 7025 7940** or email **andrology@tdlpathology.com** for further information.

SCAN ME

Book an appointment online:

www.tdlpathology.com/andrologybooking

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

TDL Andrology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Individual Semen Parameters*** *** Semen parameters may be requested individually (e.g. count only, vitality only, motility etc.). Please request as SPOD and indicate on the request form which parameter is required.	SPOD	**Semen** [1]	1 day	£80.00
Oxidative Stress in Semen (ROS + MIOXSYS)	SROS	**Semen** [1]	1 day	£255.00
Retrograde Ejaculation	RTRO	Contact lab	2 days	£98.50
Semen Analysis, Comprehensive* * If required, comprehensive semen analysis can be reported within 4 hours, with morphology to follow.	SPER	**Semen** [1]	2 days*	£220.50
Semen Analysis, Post-Vasectomy** ** For men who have had a vasectomy, clearance should only be given when there is no evidence of presence of sperm in a single ejaculate when recommendations are met. It is rare that a 'diagnosis' is made without confirmation, therefore patients/clinicians should be able to freely request a second confirmatory sample. Special clearance may be given at the doctor's discretion, when there are <100 000/ml non-motile sperm present after the assessment of two specimens in full accordance with recommendations. Recommendations, as given by the Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons 2016, are as follows: • Analysis of post vasectomy semen samples should not occur until 12 weeks post-surgery and after a minimum of 20 ejaculates • Semen samples must be analysed within 4 hours of production, and in cases where sperm is found a repeat analysis must be performed within 1 hour of production • Semen should be provided in weighed specimen containers provided by TDL Andrology • Sexual abstinence should be between 2 and 7 days.	PVAS	**Semen** [1]	2 days	£120.00
Semen Analysis, Vasectomy Reversal* * If required, comprehensive semen analysis can be reported within 4 hours, with morphology to follow.	SPER	**Semen** [1]	2 days*	£220.50
Semen Culture	SPCU	**Semen**	2-4 days	£81.00
Semen Fructose (Qualitative assessment)	SPCF	**Semen**	2 days	£94.50
Semen Leucocytes	PMNS	**Semen**	2 days	£120.00
Semen Zinc	SPCZ	**Semen**	up to 10 days	£40.50
Sperm Aneuploidy	SPPL	**Semen** [1]	4 weeks	£913.00
Sperm Antibodies (Serum)	ASAB	B	5 days	£139.00
Sperm Antibodies/MAR Test (Semen)† † Sperm antibodies in semen are measured as part of the routine semen analysis.	ASPA	**Semen**	1 day	£121.00
Sperm Comet®	CMET	**Semen** [1]	1-2 weeks	£360.00
Sperm Comet® Exact Focus	CMT2	**Semen** [1]	1-2 weeks	£490.00
Sperm Comet® Extend	CMT3	**Semen** [1]	1-2 weeks	£490.00
Sperm Comet® Extend Focus	CMT4	**Semen** [1]	1-2 weeks	£665.00
Sperm Count (Post-Vasectomy)	PVAS	**Semen** [1]	2 days	£120.00
Sperm DNA Fragmentation (SCSA type test)	SEXT	**Semen** [1]	1-2 weeks	£260.00
Sperm Morphology (Kruger strict criteria)	MRPH	**Semen** [1]	2 days	£98.50

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

By special arrangement

- Sperm swim test
- Sperm preparation for overnight survival
- Sperm motility and vitality testing for epididymal toxicity
- Sperm retrieval procedures (biopsy, PESA, MESA)
- Sperm cryopreservation and storage (undertaken by Andrology Solutions – HFEA licensed)

All men who store sperm must be screened for HIV 1&2, Hepatitis B, Hepatitis C and HTLV. Under HFEA regulations, sperm can be stored for an initial period of 10 years with formal consent. All patients are offered counselling prior to sperm cryopreservation.

These arrangements, and details for other specialist semen tests, are available on request. Please contact TDL Andrology on **020 7025 7940** or email **sheryl.homa@tdlpathology.com** for further information.

Sperm DNA fragmentation

High sperm DNA fragmentation (SDF) is associated with reduced natural pregnancy rates and assisted conception pregnancy rates as well as live birth rates. Sperm DNA fragmentation also leads to higher miscarriage rates, as published in the ESHRE Recurrent Pregnancy Loss 2017 Guideline. High levels of DNA fragmentation may be reduced by considering varicocele repair, treatment of underlying infections or inflammation, changes in lifestyle, or with antioxidant supplements. Sperm DNA can be damaged when sperm are being made in the testes or as they mature before ejaculation. This damage breaks the DNA into fragments, so sperm DNA tests are also known as sperm DNA fragmentation tests. Men with high levels of sperm DNA damage are less likely to get their partner pregnant and have increased risk of miscarriage. Even if semen analysis results are 'normal', the sperm DNA could be damaged and therefore poor quality.

When requesting Sperm DNA Fragmentation there are two options. Please specify whether the request is for sperm DNA fragmentation by **COMET** or **SCSA**.

Sperm Chromatin Structure Assay (SCSA type test) [SEXT]

This test has the ability to measure large numbers of cells (between 5,000 and 15,000 sperm), rapidly in an ejaculate. The SCSA test monitors the changes in fluorescence of a probe using Acridine Orange Flowcytometry test, to detect both single and double DNA strand breaks. It has been developed using human and animal models over the last 35 years and is one of the most statistically robust tests available for sperm DNA fragmentation. It is a standardised, validated CLIA approved test with high reproducibility and low variability. The test requires a minimum sperm count of approximately 100,000/ml.

Sperm COMET® Assay [CMET / CMET2 / CMET3 / CMET4]

Exact® tests, powered by SpermComet technology measure sperm DNA damage.

The COMET® assay sperm DNA fragmentation (SDF) tests from Examen® provide one of the highest performance levels among commercially available SDF tests. The COMET® tests directly measure total single- and double-strand DNA breaks (CMET / CMT2), and double-strand breaks only (CMT3 / CMT4). Use Examen's COMET® tests for

- couples struggling to achieve pregnancy (idiopathic infertility), especially where a semen analysis was 'normal', or where there have been repeated failed IVF cycles (CMET / CMT2)
- couples struggling to keep the pregnancy / suffering multiple recurrent pregnancy loss, especially if multiple early losses <14 weeks, and female aged mid-thirties and above (CMT3 / CMT4)

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

It has the advantage of requiring only 5000 sperm so it can be used for men with low sperm counts and for surgically retrieved sperm samples. There are 4 types of COMET tests available at different costs. The clinician must select the desired type prior to sending the patient as well as ensuring completion of the Examen request form.

Sperm Aneuploidy

Chromosomal abnormalities may be somatic cell in origin, in which case they can be detected by a simple blood karyotype analysis. However, most sperm chromosome anomalies arise as a result of errors during meiosis, which cannot be detected by a blood karyotype analysis. These anomalies can only be detected by looking at the sperm chromosomes directly. Studies have shown that sperm with a high rate of aneuploidy have a negative impact on pregnancy rate and are associated with recurrent pregnancy loss.

This test uses fluorescent in situ hybridisation (FISH) to label individual chromosomes with specific probes. Hundreds of sperm are assessed from one ejaculate. There are limitations to the test as only 5 probes are currently used routinely for analysis (three of the 22 autosomes: chromosomes 13, 18 and 21, and the sex chromosomes, X and Y), although others are available upon specific request. The results are reported showing incidence of disomy or nullisomy for each of the autosomes and for both sex chromosomes. A sex chromosome ratio is also reported. It is CE marked.

Instructions for collection of Sperm DNA fragmentation and Aneuploidy specimens

Sperm DNA Fragmentation or Sperm Aneuploidy testing are not part of the Comprehensive Semen Analysis and need to be requested as a separate test, test code SEXT, CMET1-CMET4 and SPPL, respectively.

Semen samples ideally need to be frozen as soon as possible after liquefaction, but not longer than 60 minutes post ejaculation. Samples must be snap-frozen for Sperm DNA Fragmentation and cryopreserved in TYB for Sperm Aneuploidy. If samples are prepared by another laboratory. Two cryovials containing not less than 0.25 mls of semen is required. Frozen samples can be sent to, or collected by TDL, by arrangement, and must be accompanied with relevant patient details andthe sperm count. For CMET test please ensure a completed Examen request form accompanies the TDL request form.

A count of a minimum 0.1 million/ml is required for accurate DNA fragmentation and aneuploidy reporting.

Oxidative Stress in Semen (ROS + MIOXSYS) and Male Infertility

There is now growing evidence to support a link between oxidative stress and male infertility. It is the underlying cause of sperm DNA damage and impairs semen parameters and fertilisation, adversely affects embryo development and is associated with reduced pregnancy rates. It may also increase the risk of miscarriage. High levels of ROS may be reduced by considering varicocele repair, treatment of underlying infections or inflammation, changes in lifestyle or with antioxidant supplements.

TDL provides a comprehensive assessment of oxidative stress by **combined measurement of Reactive Oxygen Species and Redox Potential**. Please request as oxidative stress test (code ROS).

The test includes combined testing for:

- **Chemiluminescence Assay for Reactive Oxygen Species**: Reactive Oxidative stress may be measured by a simple chemiluminescence test in semen, which measures the level of reactive oxygen species.

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

- **MIOXSYS Electrochemical Assay for Redox Potential**: Oxidative stress may be determined by an electrochemical assay which measures the redox potential in semen. This test measures the overall difference between total oxidants and antioxidants in the system.

If you would like to discuss these tests, or any aspect of this service, please contact TDL Andrology on **020 7025 7940** or **020 7307 7373**, or email **andrology@tdlpathology.com**.

Semen samples need specialist handling – for this reason all requests for semen analyses should be made by appointment. Practices or patients should contact TDL Andrology on **020 7025 7940** to make appointments and to confirm instructions for sample collection. Appointments can also be booked via **www.tdlpathology.com/andrologybooking**

Effects of ROS-induced Oxidative Stress on Sperm

- Lipid peroxidation which damages the sperm surface causing an abnormal morphology and impaired motility.
- Damage to proteins on cell surface responsible for cell signalling and may affect enzyme function inside the cell.
- Increased semen viscosity.
- Peroxidation of DNA and subsequent unravelling or fragmentation.
- Possible mutagenic effects.
- Damage to seminiferous epithelium, damage to tubules, testicular atrophy, reduced spermatogenesis.
- Decrease in sperm vitality, motility.
- Impaired fertilization by affecting sperm capacitation and the acrosome reaction.

Causes of Elevated ROS Levels

- Genito-urinary tract infection
- Prostatitis
- Vasectomy reversal
- Varicocele
- Cryptorchidism
- Chronic disease
- Xenobiotics
- Chemical pollutants and occupational hazards
- Heavy metal exposure
- Removal of seminal plasma during sperm preparation for assisted conception
- Drugs – cyclophosphamide, aspirin, paracetamol
- Smoking
- Excessive exercise
- Heat exposure
- Obesity
- Age

References

Vassiliou A, Martin CH, Homa ST, Stone J, Dawkins A, Genkova MN, Skyla Dela Roca H, Parikh S, Patel J, Yap T, Killeen AP. Redox potential in human semen: Validation and qualification of the MiOXsys assay. Andrologia. 2021 Mar;53(2):e13938. doi: 10.1111/and.13938. Epub 2020 Dec 30. PMID: 33377541.

Sexual Health

TEST	CODE	SAMPLE REQS	TAT	PRICE
7 STI Profile by PCR (7 tests from 1 Sample)	DL12	**FCRU / PCR Swab / TPV**	2 days	£140.00
7 STI Profile by PCR (7 tests from 1 Sample) (Self-collect)	DL12	Aptima urine or multisite swab	2 days	£140.00
Chlamydia – PCR swab	SPCR	**PCR**	2 days	£80.00
Chlamydia – Thin Prep	TPCR	**TPV**	2 days	£93.00
Chlamydia – Urine	CPCR	**FCRU**	2 days	£80.00
Chlamydia/Gonorrhoea – PCR Swab	SCG	**PCR**	2 days	£80.00
Chlamydia/Gonorrhoea – Rectal (PCR)	RSCG	**PCR**	2 days	£80.00
Chlamydia/Gonorrhoea – Rectal (Self-collect)	RSCG	Aptima multisite swab	2 days	£80.00
Chlamydia/Gonorrhoea – Thin Prep	TCG	**TPV**	2 days	£93.00
Chlamydia/Gonorrhoea – Throat (PCR)	TSCG	**PCR**	2 days	£80.00
Chlamydia/Gonorrhoea – Throat (Self-collect)	TSCG	Aptima multisite swab	2 days	£80.00
Chlamydia/Gonorrhoea – Urine (FCRU)	CCG	**FCRU**	2 days	£80.00
Chlamydia/Gonorrhoea – Urine (Self-collect)	CCG	Aptima urine	2 days	£80.00
Chlamydia/Gonorrhoea – Vaginal (Self-collect)	SCG	Aptima multisite swab	2 days	£80.00
Chlamydia/Gonorrhoea/Trichomonas – PCR Swab	SCGT	**PCR**	2 days	£120.00
Chlamydia/Gonorrhoea/Trichomonas – Thin Prep	TCGT	**TPV**	2 days	£120.00
Chlamydia/Gonorrhoea/Trichomonas – Urine	CCGT	**FCRU**	2 days	£120.00
CT/GC/Trichomonas/Mgen – PCR Swab	SGTM	**PCR Swab**	2 days	£120.00
CT/GC/Trichomonas/Mgen – Thin Prep	TGTM	**TPV**	2 days	£120.00
CT/GC/Trichomonas/Mgen – Urine	CGTM	**FCRU**	2 days	£120.00
Gardnerella vaginalis by PCR	GVPC	**FCRU / PCR / TPV**	2 days	£93.00
Gonorrhoea – PCR swab	SGON	**PCR**	2 days	£80.00
Gonorrhoea – Thin Prep	TGON	**TPV**	2 days	£93.00
Gonorrhoea – Urine	CGON	**FCRU**	2 days	£80.00
Gonorrhoea Culture – Cervix ‡ ‡ ‡ The optimal sample type from the female genital tract is an endocervical swab. Gonorrhoea does not survive well outside the endocervical epithelium; a negative gonorrhoea culture result from a vaginal swab is not reliable for excluding infection.	GONC	**CS**‡‡‡	3-5 days	£81.00
Gonorrhoea Culture – Rectal	GONR	**CS**	3-5 days	£81.00
Gonorrhoea Culture – Throat	GONT	**CS**	3-5 days	£81.00
Gonorrhoea Culture – Urethral	GONU	**CS**	3-5 days	£81.00
Gonorrhoea Culture – Other site	GONO	**CS**	3-5 days	£81.00
Haemophilus ducreyi by PCR	DUCR	**PCR**	7 days	£173.00
Hepatitis A Profile	HEPA	B	1 day	£86.00
Hepatitis B Surface Antigen (Self-collect)	THBA	B (TDL Tiny)	1 day	£52.50
Hepatitis B Surface Antigen (Venous)	AUAG	B	1 day	£52.50

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Sexual Health

TEST	CODE	SAMPLE REQS	TAT	PRICE
Hepatitis C Antibodies (Self-collect)	THCV	B (TDL Tiny)	1 day	£106.00
Hepatitis C Antibodies (Venous)	HEPC	B	1 day	£106.00
Hepatitis C Antigen (Early detection) (Self-collect)	TCAG	B (TDL Tiny)	1 day	£65.50
Hepatitis C Antigen (Early detection) (Venous)	HCAG	B	1 day	£65.50
Herpes Simplex (HSV) 1 & 2 – Genital lesion (Self-collect)	HERS	Aptima multisite swab	5 days	£93.00
Herpes Simplex (HSV) 1 & 2 – Oral lesion (Self-collect)	HERS	Aptima multisite swab	5 days	£93.00
Herpes Simplex (HSV) 1 & 2 (PCR) (Oral or Genital)	HERS	**PCR**	5 days	£93.00
Herpes Simplex I/II by PCR (Urine)	HERD	**FCRU**	5 days	£93.00
HIV 1 & 2 Abs/p24Ag (Self-collect)	THIV	B (TDL Tiny)	1 day	£57.50
HIV 1 & 2/p24Ag (Venous)	HDUO	B	1 day	£57.50
HIV/HBV/HCV (Early detection by PCR/NAAT) with Syphilis	STXX	B A 2 x 6mls or 2 x 4mls	3 days	£224.00
HIV/HBV/HCV Screen by PCR/ NAAT (10 days post exposure)	STDX	A 2 x 6mls or 2 x 4mls (Vacutainer only)	3 days	£200.50
HIV Rapid RNA HIV-1 QUALITATIVE	LHIV	A (Vacutainer only)	1 day	£184.00
HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	A (Vacutainer only)	1 day	£184.00
HPV (19 high risk DNA subtypes, reported as types 16, 18 or Others) (Self-collect)	HPVY	Qvintip vaginal swab	3 days	£73.50
HPV (Individually typed high risk DNA subtypes) (Self-collect)	HPVZ	Qvintip vaginal swab	3 days	£115.00
HPV (28 individually typed low risk (LR) & high risk (HR) DNA subtypes and reflexed mRNA for types 16, 18, 31, 33 and 45)	HPVT	**TPV**	5 days	£146.00
HPV (28 individually typed LR & HR DNA subtypes)	HP20	**TPV**	3 days	£115.00
HPV (A group of 14 HR mRNA types)	HPVH	**TPV**	3 days	£73.50
Lymphogranuloma Venerium (LGV) – Rectal (Self-collect)* * This test can be configured to be automatically reflexed as required.	LGVP	Aptima multisite swab	1-2 weeks	£119.00
Lymphogranuloma Venerium (LGV) (PCR) * LGV can be added to a positive chlamydia sample using the same swab if requested within 4 days of receipt of result (PCR).	LGVP	**PCR***[42]	1-2 weeks	£119.00
Macrolide Resistance Test (Mgen)	MGR	**FCRU / PCR**	1-2 weeks	£200.50
MPOX (Virus) – Lesion (Self-collect)	MPXV	Aptima multisite swab	2 days	£132.50
Mycoplasma genitalium by PCR	MGEN	**FCRU / PCR / TPV**	2 days	£93.00

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Sexual Health

TEST	CODE	SAMPLE REQS	TAT	PRICE
Mycoplasma genitalium by PCR – Urine and Vaginal (Self-collect)	**MGEN**	Aptima urine or multisite swab	2 days	£93.00
Mycoplasma genitalium Resistance – Urine or Vaginal (Self-collect)	**MGR**	Aptima urine or multisite swab	1-2 weeks	£200.50
Mycoplasma genitalium/Ureaplasma by PCR	**MUPC**	**FCRU / PCR / TPV**	2 days	£120.00
Rapid Xpert HIV-1 RNA Qualitative – Early Detection from 10 days	**LHIV**	A (Vacutainer only)	1 day	£184.00
Rapid Xpert HIV-1 RNS Viral Load – Rapid Testing for HIV-Positive Patient Prognosis and Response To Antiretroviral Therapy	**RHIV**	A (Vacutainer only)	1 day	£184.00
RPR (Syphilis)	**RPR**	B	2 days	£40.50
STD1 M/F STD Quad (Urine and Serology)	**STD1**	B **FCRU**	2 days	£139.00
STD2 M/F STI Profile Plus (Urine and Serology)	**STD2**	B **FCRU** (If culture swabs are needed please request separately)	4 days	£397.00
STD3 Female STD Quad (PCR Swab and Serology)	**STD3**	B **PCR**	2 days	£139.00
STD4 Female STI Profile Plus (PCR Swab and Serology)	**STD4**	B **PCR** (If culture swabs are needed please request separately)	4 days	£397.00
STD5 Serology only	**STD5**	B	1 day	£152.00
STD6 Serology only without HIV	**STD6**	B	1 day	£142.50
STD8 Vaginitis/BV Profile using Culture & PCR Swab	**STD8**	**PCR** and **STM**	3 days	£150.00
STD9 Symptomatic lesion sample using PCR Swab from lesion	**STD9**	**PCR Swab**	7 days	£130.50
STI Profile by PCR (7 tests from 1 sample) (Self-collect)	**DL12**	Aptima urine or multisite swab	2 days	£140.00
STI Profile: MSM1 (Blood + Urine/ Throat/Rectal Swabs) (Self-collect)	**MSM1**	B (TDL Tiny) / Aptima Urine / Aptima multisite swab x 2	2 days	£216.00
STI Profile: MSM1 (Venous)	**MSM1**	B / **FCRU / PCR Swab Throat / PCR Swab Rectal**	2 days	£216.00
STI Profile: MSM2 (Blood + Urine/ Throat/Rectal Swabs) (Self-collect)	**MSM2**	B (TDL Tiny) / Aptima urine / Aptima multisite swab x 2	3 days	£445.00
STI Profile: MSM2 (Venous)	**MSM2**	B / **FCRU / PCR Swab Throat / PCR Swab Rectal**	3 days	£445.00
Syphilis by PCR (chancre)	**SYPS**	**PCR**	5 days	£151.00
Syphilis IgG/IgM (Self-collect)	**TSYP**	B (TDL Tiny)	1 day	£65.50

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See page 25 for sample-taking and special handling instructions.

Sexual Health

TEST	CODE	SAMPLE REQS	TAT	PRICE
Syphilis IgG/IgM (Venous)	SERJ	B	1 day	£65.50
TPHA	TPPA	B	2 days	£40.50
Trichomonas vaginalis (PCR)	TVPC	**FCRU** / **PCR** / **TPV**	2 days	£93.00
Trichomonas vaginalis (TV) – Urine or Vaginal (Self-collect)	TVPC	Aptima urine or multisite swab	2 days	£93.00
Triple Swab Female STI Profile (Vaginal/ Throat/Rectal Swabs) (PCR)	3SWA	**PCR** swab x 3 (label by site)	2 days	£165.50
Triple Swab Female STI Profile (Vaginal/ Throat/Rectal Swabs) (Self-collect)	3SWA	Aptima multisite swab x 3 (label by site)	2 days	£165.50
Ureaplasma urealyticum by PCR	UGEN	**FCRU** / **PCR** / **TPV**	2 days	£93.00
Vaginitis/BV Profile (Culture & PCR)	STD8	**PCR** and **STM**	3 days	£150.00
Vaginitis/BV Profile using Culture & PCR Swab (Self-collect)	STD8	Aptima multisite swab and Blue gel Amies swab	3-5 days	£150.00

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STD1 M/F STD Quad (Urine and Serology)

SEROLOGY
HIV 1&2/p24 Antigen
Syphilis IgG/IgM

URINE
Chlamydia
Gonorrhoea

TAT: 2 days

STD1 £139.00

B **FCRU**

STD4 Female STI Profile Plus (PCR Swab and Serology)

SEROLOGY
HIV 1&2/p24 Antigen
Hepatitis B Surface Antigen
Hepatitis C Antibodies
Hepatitis C Antigen
Syphilis IgG/IgM

VAGINAL PCR SWAB
Chlamydia/Gonorrhoea
Mycoplasma genitalium
Ureaplasma
Trichomonas vaginalis
Gardnerella vaginalis
Herpes Simplex I/II

TAT: 4 days

STD4 £397.00

B **PCR** (If culture swabs are needed please request separately)

STD2 M/F STI Profile Plus (Urine and Serology)

SEROLOGY
HIV 1&2/p24 Antigen
Hepatitis B Surface Antigen
Hepatitis C Antibodies
Hepatitis C Antigen
Syphilis IgG/IgM

URINE
Chlamydia/Gonorrhoea
Mycoplasma genitalium
Ureaplasma
Trichomonas vaginalis
Gardnerella vaginalis
Herpes Simplex I/II

TAT: 4 days

STD2 £397.00

B **FCRU** (If culture swabs are needed please request separately)

STD5 Serology only

HIV 1&2/p24 Antigen
Hepatitis B Surface Antigen
Hepatitis C Antibodies
Hepatitis C Antigen
(Early detection)
Syphilis IgG/IgM

TAT: 1 day

STD5 £152.00

B

STD3 Female STD Quad (PCR Swab and Serology)

SEROLOGY
HIV 1&2/p24 Antigen
Syphilis IgG/IgM

VAGINAL PCR SWAB
Chlamydia
Gonorrhoea

TAT: 2 days

STD3 £139.00

B **PCR**

STD6 Serology only without HIV

Hepatitis B Surface Antigen
Hepatitis C Antibodies
Hepatitis C Antigen
(Early detection)
Syphilis IgG/IgM

TAT: 1 day

STD6 £142.50

B

STD8 Vaginitis/BV Profile using Culture & PCR Swab

Candida (Culture)
Gardnerella vaginalis by PCR
Mycoplasma genitalium
Trichomonas vaginalis by PCR
Ureaplasma urealyticum

TAT: 3 days

STD8 £150.00

PCR and **STM**

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See page 25 for sample-taking and special handling instructions.

STD9 Symptomatic lesion sample using PCR Swab from lesion

Syphilis by PCR (chancre)
Herpes Simplex I/II by PCR
(from single swab)

TAT: 7 days

STD9	£130.50

PCR Swab

7 STI Profile by PCR (7 tests from 1 Sample)

Chlamydia trachomatis
Neisseria gonorrhoea
Mycoplasma genitalium
Ureaplasma species
Trichomonas vaginalis
Gardnerella vaginalis
Herpes Simplex I/II

All tests can be requested individually

TAT: 2 days

DL12	£140.00

FCRU / PCR / TPV

CT/GC/Trichomonas/ Mgen – PCR Swab

Chlamydia
Gonorrhoea
Trichomonas vaginalis
Mycoplasma genitalium

All tests can be requested individually

TAT: 2 days

SGTM	£120.00

PCR Swab

CT/GC/Trichomonas/ Mgen – Thin Prep

Chlamydia
Gonorrhoea
Trichomonas vaginalis
Mycoplasma genitalium

All tests can be requested individually

TAT: 2 days

TGTM	£120.00

TPV

CT/GC/Trichomonas/ Mgen – Urine

Chlamydia
Gonorrhoea
Trichomonas vaginalis
Mycoplasma genitalium

All tests can be requested individually

TAT: 2 days

CGTM	£120.00

FCRU

HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure)

Positive findings will be reflexed for confirmatory testing

HIV1 and HIV2 (RNA)
Hepatitis B Virus (HBV DNA)
Hepatitis C Virus (HCV RNA)

Samples must be received in the laboratory within 2 days of sample taking

STDX provides diagnostic confirmatory testing only when used in addition to serology for Ag/Ab HIV-1&2, HBV, HCV

TAT: 3 days

STDX	£200.50

A 2 x 6mls or 2 x 4mls (Vacutainer only)

HIV/HBV/HCV (Early detection by PCR/ NAAT) with Syphilis

HIV1 and HIV2 (RNA)
Hepatitis B Virus (HBV DNA)
Hepatitis C Virus (HCV RNA)
Syphilis IgG/IgM

Samples must be received in the laboratory within 2 days of sample taking

STXX provides diagnostic confirmatory testing only when used in addition to serology for Ag/Ab HIV-1&2, HBV, HCV

TAT: 3 days

STXX	£224.00

B A 2 x 6mls or 2 x 4mls

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HIV Rapid RNA HIV-1 QUALITATIVE

Early detection from 10 days
HIV-1 RNA
Sample must be received in the laboratory within 24 hours of sample taking

TAT: 1 day

LHIV	£184.00

(A) (Vacutainer only)

HIV Rapid RNA HIV-1 QUANTITATIVE

Rapid testing for HIV-positive patient prognosis and response to antiretroviral therapy
HIV-1 RNA VIRAL LOAD (40 copies/ml)
Sample must be received in the laboratory within 24 hours of sample taking

TAT: 1 day

RHIV	£184.00

(A) (Vacutainer only)

STI Profile: MSM1 (Venous)

HIV 1&2/p24 Ag
Syphilis IgG/IgM
Chlamydia/Gonorrhoea – Urine
Chlamydia/Gonorrhoea – Throat
Chlamydia/Gonorrhoea – Rectal

TAT: 2 days

MSM1	£216.00

(B) / **FCRU** / **PCR Swab Throat** / **PCR Swab Rectal**

STI Profile: MSM2 (Venous)

HIV 1&2/p24 Ag
Syphilis IgG/IgM
Hepatitis B Surface Antigen
Hepatitis C Antibodies
7 STI by PCR Screen
Chlamydia/Gonorrhoea – Throat
Chlamydia/Gonorrhoea – Rectal
Macrolide Resistance Test (M.gen)

TAT: 3 days

MSM2	£445.00

(B) / **FCRU** / **PCR Swab Throat** / **PCR Swab Rectal**

Triple Swab Female STI Profile (Vaginal/Throat/Rectal Swabs) (PCR)

Chlamydia/Gonorrhoea – Vaginal
Chlamydia/Gonorrhoea – Throat
Chlamydia/Gonorrhoea – Rectal

TAT: 2 days

3SWA	£165.50

PCR Swab x 3 (label by site)

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See page 25 for sample-taking and special handling instructions.

STI	INCUBATION PERIOD	SAMPLE SITE	TEST	TEST CODE	SAMPLE TYPE	TAT
Chlamydia CT (Bacterial)	1–3 weeks, up to 6 weeks	Urine	Chlamydia	**CPCR**	First catch Urine	2 days
		Cervix/Vagina	Chlamydia	**SPCR**	PCR Swab	2 days
		Cervix/Vagina	Chlamydia	**TPCR**	Thin Prep Vial	2 days
Gonorrhoea GC (Bacterial)	2–7 days, up to 1 month	Urine	Gonorrhoea by PCR	**CGON**	First Catch Urine	2 days
		Cervix/Vagina	Gonorrhoea by PCR	**SGON**	PCR Swab	2 days
		Cervix/Vagina	Gonorrhoea by PCR	**TGON**	Thin Prep Vial	2 days
		Cervix	Gonorrhoea by Culture	**GONC**	Black Charcoal swab	3-5 days
		Rectal	Gonorrhoea by Culture	**GONR**	Black Charcoal swab	3-5 days
		Throat	Gonorrhoea by Culture	**GONT**	Black Charcoal swab	3-5 days
		Urethral	Gonorrhoea by Culture	**GONU**	Black Charcoal swab	3-5 days
		Other site	Gonorrhoea by Culture	**GONO**	Black Charcoal swab	3-5 days
CT/GC Combined (Bacterial)	1–3 weeks, up to 6 weeks	Urine	CT/GC	**CCG**	First Catch Urine	2 days
		Cervix/Vagina	CT/GC	**SCG**	PCR Swab	2 days
		Cervix/Vagina	CT/GC	**TCG**	Thin Prep Vial	2 days
		Rectum	CT/GC	**RSCG**	PCR Swab	2 days
		Throat	CT/GC	**TSCG**	PCR Swab	2 days
Mycoplasma genitalium (Bacterial)	Symptoms develop at 1–3 weeks	Urine	Mycoplasma genitalium by PCR	**MGEN**	First Catch Urine	2 days
		GU Site	Mycoplasma genitalium by PCR	**MGEN**	PCR Swab	2 days
		Cervix/Vagina	Mycoplasma genitalium by PCR	**MGEN**	Thin Prep Vial	2 days
Ureaplasma urealyticum (Bacterial)	Symptoms develop at 1–3 weeks	Urine	Ureaplasma by PCR	**UGEN**	First Catch Urine	2 days
		GU Site	Ureaplasma by PCR	**UGEN**	PCR Swab	2 days
		Cervix/Vagina	Ureaplasma by PCR	**UGEN**	Thin Prep Vial	2 days
Trichomonas vaginalis (Parasitic)	4–28 days, many patients are asymptomatic carriers	Urine	Trichomonas vaginalis by PCR	**TVPC**	First Catch Urine	2 days
		GU Site	Trichomonas vaginalis by PCR	**TVPC**	PCR Swab	2 days
		Cervix/Vagina	Trichomonas vaginalis by PCR	**TVPC**	Thin Prep Vial	2 days
Gardnerella vaginalis (Bacterial)	Imbalance of normal flora	Urine	Gardnerella vaginalis by PCR	**GVPC**	First Catch Urine	2 days
		GU Site	Gardnerella vaginalis by PCR	**GVPC**	PCR Swab	2 days
		Cervix/Vagina	Gardnerella vaginalis by PCR	**GVPC**	Thin Prep Vial	2 days

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STI	INCUBATION PERIOD	SAMPLE SITE	TEST	TEST CODE	SAMPLE TYPE	TAT
Bacterial Vaginosis (BV) (Bacterial)	Imbalance of normal flora	Cervix/Vagina	Bacterial Vaginosis (BV) Profile by both MICROSCOPY and PCR	**STD8**	Both Microscopy & PCR swab	3 days
Herpes Simplex Viral I/II (Viral)	2–14 days, testing is most appropriate for patients with symptomatic lesion(s)	Herpes lesion	Herpes by PCR Herpes by PCR	**HERS** **HERD**	PCR Swab First Catch Urine	5 days 5 days
Human Papillomavirus (Viral)	HPV is the most common sexually transmitted infection – usually asymptomatic	Cervical cells Cells/papilloma from site (anal)	HPV (28 individually typed LR & HR DNA subtypes)	**HP20**	Thin Prep Vial Brush sampler	3 days
Genital warts (Viral)	Weeks/months after exposure	GU Warts	HPV (28 individually typed LR & HR DNA subtypes)	**HP20**	Thin Prep Vial Brush sampler Cells/Papilloma	3 days
Syphilis/Herpes (Bacterial/Viral)	Whenever active lesions are present	Symptomatic lesion	Syphilis/Herpes Lesion Profile	**STD9**	PCR Swab	7 days
Syphilis (Bacterial)	9–21 days, but up to 90 days	Blood	Syphilis IgG/IgM	**SERJ**	B	1 day
Herpes Simplex Virus I/II (Viral)	IgG 4–6 weeks after exposure, IgM 5–35 days after exposure, after which test IgG	Blood	Herpes IgG (past infection Herpes IgM (current/recent)	**HERP** **HERM**	B B	2 days 2 days
HIV (Viral)	Usually 10–90 days, but up to 180 days	Blood	HIV I&II/p24 antigen (screening from 45 days post exposure (BHIVA))	**HDUO**	B	1 day

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See page 25 for sample-taking and special handling instructions.

STI	INCUBATION PERIOD	SAMPLE SITE	TEST	TEST CODE	SAMPLE TYPE	TAT
Hepatitis B (Viral)	Usually 45–180 days, average of 60–90 days	Blood	Hepatitis B surface antigen	**AUAG**	B	1 day
Hepatitis C Ab (Viral)	Usually 9–180 days, average of 45–65 days	Blood	Hepatitis C Antibodies	**HEPC**	B	1 day

EARLY DETECTION PROFILES BY PCR	INCUBATION PERIOD	SAMPLE SITE	TEST	TEST CODE	SAMPLE TYPE	TAT
7 STIs by PCR	One sample for 7 STI Tests	Urine Cervix Vagina	Chlamydia Gonorrhoea Mycoplasma genitalium Ureaplasma genitalium Trichomonas vaginalis Gardnerella vaginalis Herpes Simplex I/II	**PP12**	**Thin Prep Vial** or **First Catch Urine** or **PCR Swab** or **Aptima urine** or **multisite swab**	2 days
HIV/HBV/HCV	Early Detection Screen by PCR Multiplex	Blood	HIV 1&2 RNA Hepatitis B (HBV DNA) Hepatitis C (HCV RNA)	**STDX**	A 2 x 6mls or 2x4mls (Vacutainer only)	3 days

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TDL website

The TDL website gives updated details of our tests – sample types, turnaround times and special instructions. The Specialities section provides a new way to find tests you need, and a Services section has additional information for TDL Collect, Postal Pathology and TestGuide app. Reference Ranges can be requested by emailing **refranges@tdlpathology.com**. Full details of our tests and profiles are also available in the TDL TestGuide app.

Visit the TDL website at:

www.tdlpathology.com

SCAN ME

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Immunology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Acute Viral Hepatitis Screen	AHSC	B	1 day	£184.00
Adrenal Cortex Antibodies	ACTX	B	2 days	£65.50
ANCA (Anti-Neutrophil Cytoplasmic Abs)	ANCA	B	2 days	£116.50
Anti-Actin Antibodies	AAA	B	5 days	£87.00
Anti-Basal Ganglia Antibodies	ABGA	B	3 weeks	£438.00
Anti-CCP Antibodies	CCP	B	2 days	£54.00
Anti-Liver Cytosol Antibodies	ALCA	B	5 days	£80.00
Anti-MOG [Myelin Oligodendrocyte Glycoprotein] Antibodies	AMOG	B	3 weeks	£128.50
Anti-MUSK Antibodies	MUSK	B	2 weeks	£341.00
Anti-Nuclear Antibodies (titre & pattern)	ANAB	B	2 days	£55.00
Anti-Phosphatidylserine Antibodies	PHTS	B	5 days	£151.00
Anti-Phospholipase A2 Receptor	AA2R	B	6 weeks	£106.00
Anti-SLA (Soluble Liver Antigen) Abs	LSA	B	5 days	£124.00
Anti-Staphylolysin Titre (SGOT)	ASTT	B	3 days	£57.50
Anti-Streptolysin Titre/ASOT	ASLT	B	2 days	£60.00
Anti-Sulfatide Antibodies	ASA	B	5 weeks	£257.00
Aquaporin 4 Antibodies (Neuromyelitis Optica)	AQUA	B	2 weeks	£276.00
Ascariasis Serology	ASC	B	5 days	£87.00
Aspergillus Precipitins	ASPP	B	5 days	£128.50
Autoantibody Profile I	AUTO	B	2 days	£152.00
Autoantibody Profile II	ENDO	B	3 days	£143.50
Avian Precipitins (11 Species)	AVIA	B	5 days	£369.50
Babesia PCR	PCRB	A	7 days	£109.50
Beta 2 Glycoprotein 1 Abs	B2GP	B	2 days	£124.00
Borrelia Antibodies (Lyme Disease) IgG, IgM	BORR	B [9,14]	2 days	£94.50
Borrelia Antibodies (Lyme Disease) IgM	BORM	B	2 days	£73.50
Borrelia Confirmation (Immunoblot)	BORC	B [9,14]	10 days	£351.00
Brucella Serology	BRUC	B [9]	2-3 weeks	£98.50
C1 Esterase Inhibitor	C1EI	B	5 days	£93.00
C3 Complement	C3	B	1 day	£55.00
C3/C4 Complement	COMP	B	1 day	£91.00
C4 Complement	C4	B	1 day	£55.00
Campylobacter Jejuni Antibodies	CJAB	B	5 days	£81.00
Candida Antibodies	CANA	B	5 days	£120.00
Cardiolipin Antibodies (IgG+IgM)	ACAB	B	2 days	£82.50

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Immunology

TEST	CODE	SAMPLE REQS	TAT	PRICE
CCP Antibodies (RF)	CCP	B	2 days	£54.00
CH50 (Classical pathway)	CH50	B (Frozen)[4]	4 days	£120.00
Chagas Disease Serology (S.American Trypanosomiasis) T. Cruzi	CHGA	B [9,14]	10 days	£151.00
Chlamydia Species Specific (MIF) Ab Screen	CHAB	B	3 days	£107.00
Chronic Fatigue Syndrome Profile	VIP1	A + B [10]	5 days	£409.00
Coeliac Disease – HLA DQ2/DQ8 Genotype	Q2Q8	A [9]	10 days	£209.50
Coeliac/Gluten Genetic Profile 2 See page 91	GSA2	A B	10 days	£357.00
Coeliac/Gluten Sensitivity Profile See page 91	GSA	B	2 days	£170.00
Colloid Antigen-2 Antibodies	CA2A	B	2 weeks	£124.00
Cotinine (Serum)	COT	B	4 days	£96.00
COVID-19 (SPIKE) Antibodies (Self-collect)	SCOV	B (TDL Tiny)	1 day	£55.50
COVID-19 (SPIKE) Antibodies (Venous)	SCOV	**SST/Serum** B (Venous)	1 day	£55.50
Diphtheria Antibodies	DIPH	B	5 days	£87.00
DNA (Double Stranded) Antibodies IgG	DNAA	B	2 days	£65.50
DNA (Single Stranded) Antibodies	DNAS	B	5 days	£73.50
Echinococcus (Hydatid) Antibodies	EFAT	B [9,14]	5 days	£71.50
Ehrlichiosis Antibodies	EHRL	B [9,14]	10 days	£120.00
Extractable Nuclear Antibodies (nRNP, Sm, Ro, La, Jo1, Scl70) CENP-B	ENA	B	2 days	£76.00
Farmers Lung Precipitins	FARM	B	5 days	£114.00
Fasciola Hepatica Antibodies (Liver Fluke)	FASC	B	2 weeks	£145.00
Ganglionic Acetylcholine Receptor Antibodies	GACA	B	9 weeks	£119.00
Ganglioside GM1, GD1B, GQ1B Abs	GANG	B	5 days	£243.00
Gastric Parietal Autoantibodies	GASP	B	2 days	£54.00
Gliadin Antibodies (IgG) (deamidated) (Self-collect)	AGAB	B (TDL Tiny)	2 days	£98.50
Gliadin Antibodies (IgG) (deamidated) (Venous)	AGAB	B	2 days	£98.50
Glomerular Basement Membrane Abs	AGBM	B	2 days	£77.00
Glutamic Acid Decarboxylase Antibodies (GAD 65)	GAD	B	5 days	£161.00
Gluten Sensitivity Evaluation	GSA	B	2 days	£170.00
Gluten Sensitivity Profile	GLUT	A B B	10 days	£369.50
Gluten/Coeliac Genetic Profile 2	GSA2	A B	10 days	£357.00
Granulocyte Immunology	GRIM	A A (or 2 x 6ml) B	2 weeks	£448.00

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See page 25 for sample-taking and special handling instructions.

Immunology

TEST	CODE	SAMPLE REQS	TAT	PRICE
H. pylori Antibodies (IgG)	**HBPA**	B	2 days	£77.00
Haemophilus B Influenzae Antibodies	**HINF**	B	5 days	£115.00
Histamine (Blood)	**HITT**	A (Frozen plasma)	5 days	£138.00
Histamine (Urine)	**HITU**	**RU**	5 days	£138.00
Histamine Releasing Urticaria Test	**CURT**	B	3 weeks	£171.00
Histone Antibodies	**HISA**	B	5 days	£112.00
Histoplasmosis	**HISP**	B	10 days	£151.00
HLA B27	**HLAB**	A [9]	3 days	£223.00
IgE (Total)	**IGE**	B	1 day	£60.00
Immune-Complexes	**IMCP**	B	5 days	£106.00
Immunofluorescence in Skin Biopsies	**IHCS**	Skin sample in Michels solution	2 weeks	£533.50
Immunoglobulins (IgG, IgM, IgA)	**IMM**	B	1 day	£87.00
Insulin Antibodies	**INAB**	B	5 days	£101.00
Interleukin 1 Beta	**ILB**	B (Frozen) [4,7]	1-2 weeks	£227.50
Interleukin 2	**IL2**	B (Frozen) [4,7]	1-2 weeks	£227.50
Interleukin 4	**IL4A**	B (Frozen) [4,7]	1-2 weeks	£227.50
Interleukin 6	**IL6**	B (Frozen) [4,7]	1-2 weeks	£227.50
Interleukin 8	**IL8**	B (Frozen) [4,7]	1-2 weeks	£357.00
Interleukin 10	**IL10**	B (Frozen) [4,7]	1-2 weeks	£377.00
Interleukin 28b Genotype	**IL28**	A	2 weeks	£437.00
Intrinsic Factor Antibodies	**IFAB**	B	2 days	£108.50
Islet Cell Antibodies	**ICAB**	B	3 days	£71.50
Legionella Antibodies	**LEGO**	B	3 days	£83.50
Legionella Urine Antigen	**LEGA**	Urine with boric acid	1 day	£104.00
Leptospirosis (Weil's Disease) Abs (IgM)	**LEP**	B	5 days	£124.00
Leukotriene E4	**LTE4**	**CU** (Frozen)	3 weeks	£448.00
Liver Immunoblot	**LIVI**	B	3 days	£185.00
Liver Kidney Microsomal Antibodies	**LKM**	B	2 days	£54.00
Lupus Anticoagulant and Anticardiolipin Abs	**LUPA**	B C C [4,18]	2 days	£116.50
Lyme Disease (Borrelia Abs) IgG, IgM	**BORR**	B [9,14]	2 days	£94.50
Lyme Disease (Borrelia Abs) IgM	**BORM**	B	2 days	£73.50
Meningococcal Serology (only serogroup C)	**MENI**	B	6 weeks	£102.50
Mitochondrial Antibodies	**AMIT**	B	3 days	£54.00
Mitochondrial Antibodies M2	**MTM2**	B	2 days	£237.00
Myasthenia Gravis Evaluation	**MGE**	B	5 days	£173.00

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Immunology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Myelin Associated Glycoprotein Antibodies	MAG	B	5 days	£324.50
Myelin Basic Protein Antibodies	MBPA	B	2 weeks	£106.00
Myeloperoxidase Antibodies	MPO	B	2 days	£61.00
Myocardial Antibodies	MYO	B	1 week	£82.50
Myositis Panel	MYOS	B	3 days	£120.00
Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2)	NEUR	B	10 days	£311.00
NMDA Receptor Antibodies	NMDA	B	3 weeks	£228.50
Nucleic Acid Antigen Antibodies	DNA	B	2 days	£80.00
Oligoclonal Bands	CSFO	2ml **CSF** + B	5 days	£260.00
Ovarian Autoantibodies	OVAB	B	3 days	£77.00
Paragomius Serology	PRGM	B	2 weeks	£142.50
Parathyroid Antibodies	PTHA	B	3 weeks	£98.50
Pemphigus/Pemphigoid Autoantibodies	SKAB	B	2 days	£65.50
Pertussis (Whooping Cough) Antibodies	PERS	B	5 days	£128.50
Pertussis (Whooping Cough) by PCR	PERP	**Pernasal or dry swab**	2-3 days	£174.00
Pituitary Antibodies	PITU	B [4]	1 month	£103.50
Pneumococcal Antibodies – Serotype Specific	PASS	B	5 weeks	£272.00
Pneumococcal Antibody Screen	PNEU	B	5 days	£113.00
Proteinase 3 Ab	PR3	B	2 days	£60.00
Purkinje Cell Antibody (Hu and Yo)	PURK	B	10 days	£66.50
Q Fever (C Burnetti) Antibodies	QFEV	B [9]	10 days	£72.50
Rheumatoid Factor (Latex Test)	RF	B	3 days	£36.00
Rheumatology Profile 1 (Screen)	RH	A B	2 days	£143.50
Rheumatology Profile 2 (Connective tissue)	RH2	A A B B	3 days	£424.00
Rheumatology Profile 3 (Rheumatoid/Basic)	RH3	A B	2 days	£207.50
Rheumatology Profile 4 (Systemic Lupus)	RH4	A B B	2 days	£319.00
Rheumatology Profile 5 (Mono Arthritis)	RH5	A A B B	3 days	£304.50
Rheumatology Profile 6 (Rheumatoid Plus)	RH6	B	3 days	£106.00
Rheumatology Profile 7 (Sjogren's Syndrome)	RH7	B	15 days	£106.00
Rickettsial Species Antibody Profile	RICK	B	7 days	£116.50
RNA Polymerase Antibodies	RNAP	B	3 days	£71.00
RPR (Syphilis)	RPR	B	2 days	£40.50
Saccharomyces Cerevisiae Antibodies	ASCA	B	2 weeks	£139.00
Salivary Duct Antibodies	SAB	B	15 days	£62.50

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Immunology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Scleroderma Immunoblot	SCLI	B	3 days	£185.00
Sjogren's Syndrome	RH7	B	15 days	£106.00
Skin (Pemphigus/Pemphigoid) Autoantibodies	SKAB	B	2 days	£65.50
Skin Antibodies by Immunofluorescence	STSK	B	1 month	£246.00
Sleeping Sickness Serology (African Trypanosomiasis)	TRYP	B [9]	10 days	£208.50
Smooth Muscle Antibodies	ASMO	B	2 days	£54.00
Sperm Antibodies (Serum)	ASAB	B	5 days	£139.00
Steroid Cell Antibody	SCA	B	2 days	£97.00
Striated/Skeletal Muscle Antibody	STRA	B	3 days	£54.00
Strongyloides Antibodies	STGA	B	10 days	£119.00
Syphilis IgG/IgM (Self-collect)	TSYP	B (TDL Tiny)	1 day	£65.50
Syphilis IgG/IgM (Venous)	SERJ	B	1 day	£65.50
TB Quantiferon®-TB Gold* * Please indicate clearly if samples have/have not been incubated prior to sending to the laboratory. If Lith Hep (green top) tube is used, please request as TBQ4 and ensure sample is received in the laboratory within 16 hours of sample taking.	TBQ4	**Special tubes** or H [1]	3 days	£119.00
Tetanus Antibody	TETA	B	5 days	£112.00
Thyroid Abs (Thyroglobulin + Thyroid Peroxidase Abs) (Self-collect)	THAB	B (TDL Tiny)	2 days	£92.00
Thyroid Abs (Thyroglobulin + Thyroid Peroxidase Abs) (Venous)	THAB	B	1 day	£92.00
Thyroid Peroxidase Antibodies/Anti TPO	TPEX	B	1 day	£56.50
Tissue Transglutaminase IgA (Coeliac) (Self-collect)	TAA	B (TDL Tiny)	2 days	£66.50
Tissue Transglutaminase IgA (Coeliac) (Venous)**	TAA	B	2 days	£66.50
Tissue Transglutaminase IgG	TAAG	B	5 days	£78.50
Total Immune Function Evaluation	TIE	A + B [5,10]	7 days	£369.50
Total Immunoglobulin E	IGE	B	1 day	£60.00
Toxocara Antibodies (IgG)	TFAT	B [9]	5 days	£82.50
Toxoplasma Antibodies (IgG, IgM)	TFAM	B [9]	1 day	£82.50
Toxoplasma Antibody Full Evaluation (IgM, Dye Test, IgG Avidity)	TDYE	B [9]	10 days	£150.00
Toxoplasma by PCR	TXAG	A	5 days	£172.00
TPHA	TPPA	B	2 days	£40.50
Trichinella Serology	TRIC	B	5 days	£103.50

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Immunology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Trypanosome (Chagas) Antibodies	CHGA	B [9,14]	10 days	£151.00
TSH-Receptor Antibodies	TSI	B	4 days	£165.50
Tularaemia Antibodies	TULA	B [14]	5 days	£107.00
Urinary Methyl Histamine	UHIT	**RU** (Frozen)	2 weeks	£129.50
Urticaria Test (Histamine Releasing)	CURT	B	3 weeks	£171.00
Vascular Endothelial Growth Factor	VEGF	B	14 days	£227.50
Voltage Gated Calcium Channel Antibodies	CCAB	B	3 weeks	£269.00
Voltage Gated Potassium Channel Antibodies	VPCA	B	3 weeks	£196.50
Whooping Cough (Pertussis) Antibodies	PERS	B	5 days	£128.50
Whooping Cough (Pertussis) by PCR	PERP	**Pernasal or dry swab**	2-3 days	£174.00
Yellow Fever Antibodies	YELL	B [9,14]	10 days	£179.50
Yersinia Antibodies	YERS	B	4 days	£181.50
Zika Abs IgM and IgG – Antibody detection from 15 days	ZKAB	B	Up to 14 days	£129.50
Zika RNA by PCR in Semen	ZIKS	**Semen**	Up to 14 days	£318.00
Zika RT PCR – Window of detection from 1-7 days from onset of symptoms	ZIKA	B	Up to 14 days	£228.50
Zika RT PCR – Window of detection from 1-14 days from onset of symptoms	ZIKU	**RU**	Up to 14 days	£228.50

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Acute Viral Hepatitis Screen

Hepatitis A (IgM)
Hepatitis B Surface Antigen
Hepatitis C Antibodies

TAT: 1 day

AHSC	£184.00

B

Autoantibody Profile I

Thyroid Abs (Thyroglobulin + Thyroid Peroxidase Abs)
Anti-Nuclear Antibodies
Mitochondrial Antibodies
Smooth Muscle Antibodies
Gastric Parietal Autoantibodies
Liver Kidney Microsomal Antibodies

TAT: 2 days

AUTO	£152.00

B

Autoantibody Profile II

Thyroid Abs (Thyroglobulin + Thyroid Peroxidase Abs)
Islet Cell Antibodies
Adrenal Cortex Antibodies
Gastric Parietal Autoantibodies
Gonadal (Ovarian) Autoantibodies

TAT: 3 days

ENDO	£143.50

B

Chlamydia Species Specific (MIF) Ab Screen

Chlamydia trachomatis (serovar A-K & L1-L3)
Chlamydia pneumoniae
Chlamydia psittaci

TAT: 3 days

CHAB	£107.00

B

Chronic Fatigue Syndrome Profile

Epstein-Barr Virus Antibodies IgG/IgM
Lymphocyte Subsets (CD3/CD4/CD8)
C Reactive Protein (CRP)
Vitamin D (25-OH)

TAT: 5 days

VIP1	£409.00

A + B [10]

Coeliac/Gluten Genetic Profile 2

Gliadin Antibodies (IgG) (deamidated)
HLA Tissue Typing Coeliac Disease – DQ2/DQ8
Immunoglobulin A
Tissue Transglutaminase IgA (Coeliac)

TAT: 10 days

GSA2	£357.00

A B

Coeliac/Gluten Sensitivity Profile

Gliadin Antibodies (IgG) (deamidated)
Immunoglobulin A
Tissue Transglutaminase (IgA)

TAT: 2 days

GSA	£170.00

B

Gluten Sensitivity Profile

Gluten Single IgE Allergen
Gliadin Antibodies (IgG) (deamidated)
HLA Tissue Typing Coeliac Disease – DQ2/DQ8
Immunoglobulin A
Tissue Transglutaminase IgA (Coeliac)

TAT: 10 days

GLUT	£369.50

A B B

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Rheumatology Profile 1 (Screen)

Full Blood Count (FBC)
ESR
Uric Acid (Serum)
Rheumatoid Factor (Latex Test)
Anti-CCP Antibodies
C Reactive Protein (CRP)

TAT: 2 days

RH £143.50

A B

Rheumatology Profile 2 (Connective tissue)

Full Blood Count (FBC)
ESR
Uric Acid (Serum)
Anti-Nuclear Antibodies
DNA (Double Stranded) Antibodies IgG
Antibodies to Extractable Nuclear Antigens (ENA):
Anti-nRNP
Anti-Sm
Anti-Ro (SS-A)
Anti-La (SS-B)
Anti-Jo-1
Anti-Scl 70
Anti-CENP
Rheumatoid Factor (Latex Test)
Anti-CCP Antibodies
HLA B27
C Reactive Protein (CRP)
CENP-B

TAT: 3 days

RH2 £424.00

A A B B

Rheumatology Profile 3 (Rheumatoid/Basic)

Full Blood Count (FBC)
ESR
Uric Acid (Serum)
Rheumatoid Factor (Latex Test)
Anti-CCP Antibodies
Anti-Nuclear Antibodies
C Reactive Protein (CRP)

TAT: 2 days

RH3 £207.50

A B

Rheumatology Profile 4 (Systemic Lupus)

Full Blood Count (FBC)
ESR
Anti-Nuclear Antibodies
DNA (Double Stranded) Antibodies IgG
Antibodies to Extractable Nuclear Antigens (ENA):
Anti-nRNP
Anti-Sm
Anti-Ro (SS-A)
Anti-La (SS-B)
Anti-Jo-1
Anti-Scl 70
Anti-CENP
Rheumatoid Factor (Latex Test)
Anti-CCP Antibodies
Anti-Cardiolipin Autoantibodies
Complement 3/4
C Reactive Protein (CRP)

TAT: 2 days

RH4 £319.00

A B B

Rheumatology Profile 5 (Mono Arthritis)

Full Blood Count (FBC)
ESR
Uric Acid (Serum)
Rheumatoid Factor (Latex Test)
Anti-CCP Antibodies
Anti-Nuclear Antibodies
C Reactive Protein (CRP)
HLA B27

TAT: 3 days

RH5 £304.50

A A B B

Rheumatology Profile 6 (Rheumatoid Plus)

Rheumatoid Factor (Latex Test)
Anti-CCP Antibodies
C Reactive Protein (CRP)

TAT: 3 days

RH6 £106.00

B

Rheumatology Profile 7 (Sjogren's Syndrome)

Anti-Ro (SS-A)
Anti-La (SS-B)
Salivary Antibodies (SAB)
C Reactive Protein (CRP)

TAT: 15 days

RH7 £106.00

B

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Coeliac Disease (CD)

Coeliac Disease (CD) is an immune-mediated disease of the intestines that is triggered by the ingestion of gluten in genetically susceptible individuals. Gluten is the major protein component of wheat, rye, and barley. Genetic predisposition does play a key role in CD, and it is well known that CD is strongly associated with specific HLA class II genes known as HLA-DQ2 and HLA-DQ8. Approximately 95% of CD patients express HLA-DQ2, and the remaining patients are usually HLA-DQ8 positive. The negative predictive value for both tests is higher than 99%. However, the HLA-DQ2 allele is common and is carried by approximately 30% of Caucasian individuals. Thus, HLA-DQ2 or HLA-DQ8 is necessary for disease development but is not sufficient for disease development; its estimated risk effect is only 36-53%.

Note: History taking is important if a patient has been on a gluten-free diet for 6-12 months, approximately 80% will lose their antibody response. After 5 years this increases to >90%.

Coeliac pathway

To determine the new Coeliac Pathway, a TDL audit of more than 12,000 requests for coeliac testing was carried out and results assessed within UKAS current guidelines. The purpose of these new guidelines is to reduce the risk of missing IgA deficient patients.

The new pathway covers this by adding a total IgA to all low Tissue Transglutaminase (TGG) IgA results to check for an IgA deficiency. If an IgA deficiency is identified, a reflex deamidated gliadin IgG will be carried out to determine whether the patient is likely to have coeliac disease with an IgG antibody.

The changes are as follows:

- Initial TTG IgA samples are received and tested
- If TTG IgA is LOW <0.2 U/ml reflex testing for Total IgA will be undertaken
- If Total IgA is LOW <0.1 g/L then reflex testing for Gliadin IgG test will be undertaken
- If TTG IgA is HIGH >/= 10 U/ml then reflex testing for Endomysial IgA will be undertaken as a confirmatory test for first time positive samples.

Endomysial IgA

- If TTG IgA is positive endomysial IgA will be carried out as a confirmatory test. This only needs to be done once in the patients history.

Deamidated gliadin IgG requests

- This can be requested as an individual standalone test as well as being incorporated into the coeliac pathway. This may be useful when testing children's samples.

Appropriate clinical comments will be added to results automatically – see table.

Gliadin IgG Requests

TTG IgA result U/ml	Total IgA result for new assay g/L	Deamidated gliadin IgG result U/ml	Comment
0.2 to 10	N/A	N/A	Coeliac disease unlikely (please note that if the patient has no dietary gluten results may appear false negative)
>/= 10	N/A	N/A	Suggestive of coeliac disease
<0.2	>/= 0.1	N/A	Coeliac disease unlikely (please note that if the patient has no dietary gluten, results may appear false negative)
<0.2	<0.1	>/=10	Consistent with coeliac disease in a patient with selective IgA deficiency
<0.2	<0.1	<7	Coeliac disease unlikely (please note that if the patient has no dietary gluten, results may appear false negative)
<0.2	<0.1	7-10	Result equivocal suggest referral to a gastroenterologist for consideration of duodenal biopsy

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Tropical and Travel-Related Immunology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Amoebic (E. histolytica) Antibodies	AFAT	B	1 week	£54.00
Amoebic (E. histolytica) PCR	AMAG	**RF**	2 days	£55.00
Bancroftia/Oncerciasis/Filarial Antibodies	TFIF	B [14]	2 weeks	£171.00
Bilharzia (Schistosome) Antibody Screen	BILH	B [14]	10 days	£116.50
Bilharzia (Urine)	USCH	Mid-morning terminal urine following exercise [14]	1-2 days	£73.50
Borrelia Antibodies (Lyme Disease) IgG, IgM	BORR	B [9,14]	2 days	£94.50
Borrelia Antibodies (Lyme Disease) IgM	BORM	B	2 days	£73.50
Borrelia Confirmation (Immunoblot)	BORC	B [9,14]	10 days	£351.00
Cryptosporidium Detection by PCR	CRPA	**RF**	2 days	£81.00
Dengue Virus Serology	DENG	B [9,14]	5 days	£124.00
DVT/Pre-travel Screen	DVT1	A A B [9]	5 days	£286.50
Echinococcus (Hydatid) Antibodies	EFAT	B [9,14]	5 days	£71.50
Enteric Organism Rapid Detection (RF)	EORD	**RF**	2 days	£224.00
Enteric Organism Rapid Detection (Self-collect)	EORD	Stool/faecal container	2 days	£224.00
Filaria (Lymphatic and Non-Lymphatic) Antibodies	FIFA	B [9,14]	10 days	£115.00
Gastrointestinal Pathogen Profile by PCR (Self-collect)	EORD	Stool/faecal container	2 days	£224.00
Insect/Worm/Ova/Cysts	FLEA	Send Specimen [9,14]	5 days	£105.00
Leishmania Antibodies	LEIS	B	5 days	£66.50
Malarial Antibodies (Pl. falciparum)	MALA	B [9,14]	5 days	£77.00
Malarial Antibodies (species specific)	MALS	B [9,14]	10 days	£99.50
Post-Travel Screen 1 (Up to 6 weeks post travel)	PTS	A A B G [14]	10 days	£269.00
Post-Travel Screen 2 (6 weeks after travel)	PTS2	A A B B B G [14]	10 days	£506.00
Pre-Travel Screen (DVT)	DVT1	A A B [9]	5 days	£286.50
Rickettsial Species Antibody Profile	RICK	B	7 days	£116.50
Schistosome (Bilharzia) Antibodies	BILH	B [14]	10 days	£116.50
Toxoplasma Antibodies (IgG, IgM)	TFAM	B [9]	1 day	£82.50
Tropical Screen (from 6 weeks post-travel)	TROP	B B [9,14]	10 days	£229.50
Zika Abs IgM and IgG – Antibody detection from 15 days	ZKAB	B	Up to 14 days	£129.50
Zika RNA by PCR in Semen	ZIKS	**Semen**	Up to 14 days	£318.00
Zika RT PCR – Window of detection from 1-7 days from onset of symptoms	ZIKA	B	Up to 14 days	£228.50
Zika RT PCR – Window of detection from 1-14 days from onset of symptoms	ZIKU	**RU**	Up to 14 days	£228.50

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Post-Travel Screen 1 (Up to 6 weeks post travel)

Haematology Profile
Biochemistry Profile
Schistosome Abs
Malarial Abs

TAT: 10 days

PTS	£269.00

A A B G [14]

Post-Travel Screen 2 (6 weeks after travel)

Haematology Profile
Biochemistry Profile
Schistosome Abs
Malarial Abs
Hepatitis A IgM Abs
Hepatitis B Surface Antigen
Hepatitis C Antibodies
HIV Duo

TAT: 10 days

PTS2	£506.00

A A B B B G [14]

DVT/Pre-travel Screen

Full Blood Count (FBC)
Factor II Prothrombin – G20210A Variant
Factor V Leiden – G1691A Variant
Cardiolipin Antibodies (IgG+IgM)

TAT: 5 days

DVT1	£286.50

A A B [9]

Tropical Screen (from 6 weeks post-travel)

Amoebic (E. histolytica) Antibodies
Schistosome (Bilharzia) Antibodies
Echinococcus (Hydatid) Antibodies
Leishmania Antibodies
Malarial Parasites
Toxoplasma Antibodies (IgG, IgM)

TAT: 10 days

TROP	£229.50

B B [9,14]

Enteric Organism Rapid Detection (RF)

Detection of Bacterial, Viral and Parasitic Infection by Multiplex Real-Time PCR

Bacteria and Bacterial Toxins

C. difficile Toxin A/B gene, Campylobacter spp., Enteroaggregative E.coli (EAEC), Enteroinvasive E.coli (EIEC)/ Shigella, Enterotoxigenic E.coli (ETEC), Enteropathogenic E.coli (EPEC), Plesiomonas shigelloides, Salmonella, Shiga-toxin producing E.coli (STEC) stx1/ stx2, Shiga-toxin producing E.coli (STEC) O157:H7, Vibrio cholerae, Vibrio parahaemolyticus, Vibrio vulnificus, Yersinia enterocolitica

Viruses

Adenovirus 40/41, Astrovirus, Norovirus GI, Norovirus GII, Rotavirus A, Sapovirus (I, II, IV, V)

Parasites

Cyclospora cayetanensis, Cryptosporidium spp., Entamoeba histolytica, Gardia lamblia

This does NOT include stool for m/c/s – this needs to be requested as a separate test. Please provide two samples if this is required.

TAT: 2 days

EORD	£224.00

RF

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See page 25 for sample-taking and special handling instructions.

Virology

Immune status

TEST	CODE	SAMPLE REQS	TAT	PRICE
Hepatitis A Immunity (IgG/IgM)	HAIM	B	1 day	£54.00
Hepatitis B Immunity (IgG) (Self-collect)	THBI	B (TDL Tiny)	1 day	£54.00
Hepatitis B Immunity (IgG) (Venous)	HBIM	B	1 day	£54.00
Measles Antibodies (IgG) Immunity	MEAS	B	1 day	£76.00
Measles Antibodies (IgM)	MEAM	B [9]	2 days	£76.00
Measles, Mumps, Rubella (MMR)	MMR	B	1 day	£162.50
Mumps Antibodies (IgG)	MUMP	B	1 day	£76.00
Mumps Antibodies (IgM)	MUMM	B	1 day	£76.00
Pertussis (Whooping Cough) Antibodies	PERS	B	5 days	£128.50
Pneumococcal Antibody Screen	PNEU	B	5 days	£113.00
Rabies Antibody	RABI	B	20 days	£161.00
Rubella Antibody (IgG)	RUBE	B	1 day	£56.50
Rubella Antibody (IgM)	RUBM	B	1 day	£80.00
Rubella PCR	RUBP	A / **Amniotic Fluid**	5 days	£180.50
Tetanus Antibody	TETA	B	5 days	£112.00
Varicella zoster Antibodies (IgG)	VZOS	B	1 day	£80.00
Varicella zoster Antibodies (IgM)	VZOM	B	1 day	£80.00

Hepatitis testing

TEST	CODE	SAMPLE REQS	TAT	PRICE
Hepatitis (Acute) Screen	AHSC	B	1 day	£184.00
Hepatitis A (IgM)	HAVM	B	1 day	£51.50
Hepatitis A Immunity (IgG/IgM)	HAIM	B	1 day	£54.00
Hepatitis A Profile	HEPA	B	1 day	£86.00
Hepatitis A RNA by PCR	HAVR	A or B	3 weeks	£245.00
Hepatitis A, B & C Profile	ABC	B B	1 day	£301.50
Hepatitis B (PCR) Genotype	BGEN	A or B	7 days	£561.00
Hepatitis B 'e' Antigen and Antibody	HEPE	B	1 day	£124.00
Hepatitis B Core Antibody – IgM	HBCM	B	1 day	£57.50
Hepatitis B Core Antibody – Total	HBC	B	1 day	£57.50
Hepatitis B DNA (Viral load)	DNAB	A or B	5 days	£286.50
Hepatitis B Immunity (IgG) (Self-collect)	THBI	B (TDL Tiny)	1 day	£54.00
Hepatitis B Immunity (IgG) (Venous)	HBIM	B	1 day	£54.00

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Virology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Hepatitis B Profile	HEPB	B	1 day	£138.00
Hepatitis B Resistant Mutation	HBRM	A or B	7 days	£360.50
Hepatitis B Surface Antigen (Self-collect)	THBA	B (TDL Tiny)	1 day	£52.50
Hepatitis B Surface Antigen (Venous)	AUAG	B	1 day	£52.50
Hepatitis C Abs Confirmation (RIBA)	RIBA	B	5 days	£188.50
Hepatitis C Antibodies (Self-collect)	THCV	B (TDL Tiny)	1 day	£106.00
Hepatitis C Antibodies (Venous)	HEPC	B	1 day	£106.00
Hepatitis C Antigen (Early detection) (Self-collect)	TCAG	B (TDL Tiny)	1 day	£65.50
Hepatitis C Antigen (Early detection) (Venous)	HCAG	B	1 day	£65.50
Hepatitis C Genotype	CGEN	A or B	5 days	£573.00
Hepatitis C Quantification (Viral Load)	QPCR	A or B	5 days	£249.50
Hepatitis Delta Antibody	HEPD	B	5 days	£121.00
Hepatitis Delta Antigen	HDAG	B	5 days	£156.00
Hepatitis Delta RNA	DRNA	A	5 days	£286.50
Hepatitis E IgG/IgM	HBE	B	5 days	£143.50
Hepatitis E RNA (PCR)	EHEP	A	2 weeks	£229.50
Hepatitis G (PCR)	HEPG	A (Frozen plasma)	2 weeks	£213.50

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See page 25 for sample-taking and special handling instructions.

Hepatitis viral load sample instructions

Whole blood can be stored at 2°C to 30°C and must be centrifuged within 24 hours of specimen collection. Separate the plasma or serum from the pelleted red blood cells following the manufacturer's instructions for the tube used. Plasma or serum can be tested on the Panther system in the primary tube or transferred to a secondary Aptima Specimen Aliquot Tube (SAT) for testing on the Panther system. If not tested immediately, plasma and serum can be stored in accordance with the specifications below. If transferred to the SAT, plasma may be frozen at -20°C or -70°C, and serum may be frozen at -20°C. Do not freeze specimens in EDTA, ACD, or serum primary collection tubes.

After centrifugation: in the primary collection tube at 2°C to 8°C for up to 3 days.

In the Aliquoted Tubes: at 2°C to 8°C for up to 5 days.

In the Aliquoted Tubes: at -20°C or -70°C for up to 90 days.

Hepatitis B Immunity/ Vaccination Anti-HBs

less than 10 mIU/ml	Non-immune to Hepatitis B
10–50 mIU/ml	Borderline – booster indicated
50–100 mIU/ml	Low level immunity – booster suggested
100 mIU/ml and over	Immune to Hepatitis B

HAV, HBV and HCV assays

All virology samples are processed as per manufacturers sample requirements and guidelines.

Hepatitis virus is named in order of their discovery A, B, C, D, E and G.

Hepatitis A

Hepatitis A is spread through food and water that have been contaminated with the virus derived from human faeces and urine. Hepatitis A is an acute infection, not a chronic form of the disease.

HBV Assays

Hepatitis B surface antigen (HBsAg) (AUAG)

A protein on the surface of HBV; it can be detected in high levels in serum during acute or chronic HBV infection. The presence of HBsAg indicates that the person is infectious. The body normally produces antibodies to HBsAg as part of the normal immune response to infection. HBsAg is the antigen used to make Hepatitis B vaccine.

Hepatitis B surface antibody (anti-HBs) (HBIM)

The presence of anti-HBs is generally interpreted as indicating recovery and immunity from HBV infection. Anti-HBs also develops in a person who has been successfully vaccinated against Hepatitis B.

Total Hepatitis B core antibody (anti-HBc) (HBC)

Appears at the onset of symptoms in acute Hepatitis B and persists for life. The presence of anti-HBc indicates previous or ongoing infection with HBV in an undefined time frame.

IgM antibody to Hepatitis B core antigen (IgM anti-HBc) (HBCM)

Positivity indicates recent infection with HBV (≤6 months). Its presence indicates acute infection.

Hepatitis B e antigen and antibody (HEPE)

Hepatitis B e antigen (HbeAg): A secreted product of the nucleocapsid gene of HBV that is found in serum during acute and chronic Hepatitis B. Its presence indicates that the virus is replicating and the infected person has high levels of HBV.

Hepatitis B e antibody (HBeAb or anti-HBe): Produced by the immune system temporarily during acute HBV infection or consistently during or after a burst in viral replication. Spontaneous conversion from e antigen to e antibody (a change known as seroconversion) is a predictor of long-term clearance of HBV in patients undergoing antiviral therapy and indicates lower levels of HBV.

HBV Viral Load (DNAB)

This assay measures the concentration of Hepatitis B viral DNA in patient serum. The test enables the viral load at the beginning of treatment to be established and, thereafter, monitored to indicate treatment success.

HBV Genotyping (BGEN)

Identifies the hepatitis B genotype (A to H) in a patient's serum/plasma. This is critical for determining treatment and monitoring response.

HBV Drug Resistance Detection (HBRM)

Detects Hepatitis B virus wild-type and drug-induced mutations, associated with lamivudine, entecavir and tenofovir.

HCV Assays

HCV Antibody (HEPC)

The test indicates exposure to virus but does not necessarily signify current infection. The HCV antibody test may therefore be used to screen patients for possible HCV infection to detect the presence of antibodies to the virus, indicating exposure to HCV. This test cannot tell if the viral infection is active, only that you were exposed to the virus in the past.

HCV Antigen (HCAG)

HVC Antigen is detectable well before the occurrence of antibodies against HCV. When virus is present, but antibodies are not detectable, a negative antibody test does not rule out HCV infection. Active HCV infection, either acute or chronic is characterised by the presence of HCV Antigen. This is analogous to HepB sAg (AUAG) in active HBV Infection.

HCV Viral Load (QPCR)

Measures the concentration of Hepatitis C viral RNA in patient serum. This state-of-the-art assay enables the viral load at the beginning of treatment to be established and, thereafter, monitored to indicate treatment success.

HCV Genotype for Treatment (CGEN)

Determines the HCV genotype in a patient's serum. The result is presented as being of either Genotype [1, 5, 6], [4] or [2, 3]. This grouping reflects required treatment duration of the different genotypes.

HCV Drug Resistance

Detects hepatitis C wild-type or drug-induced mutations associated with resistance to HCV drugs including NS5A inhibitors, NS5B inhibitors or NS3 inhibitors.

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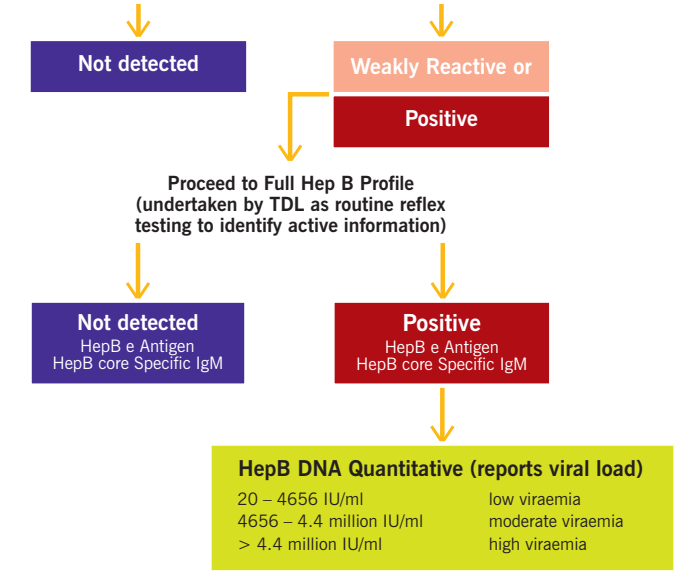
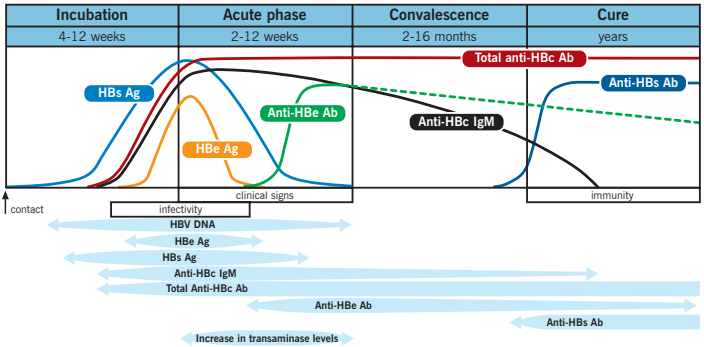
See page 25 for sample-taking and special handling instructions.

Hepatitis B Surface Antigen

Hepatitis B

- **Transmission**: Sexual, parenteral, perinatal, direct contact between individuals.
- **Clinical Signs**: Asymptomatic in 90% of cases.
- **Cure**: 95% of cases (adults).
- **Complications**: Cirrhosis and hepatocellular carcinoma.
- **Development of chronic form**: Yes (5% of adult cases).
- **Prevention**: Vaccination ++++; specific IgG.
- **Main Marker**: HBS Ag, anti HBc IgM, total anti HBc Ab, Anti-HBs Ab, HBe Ag, Anti-HBe Ab, HBV DNA.





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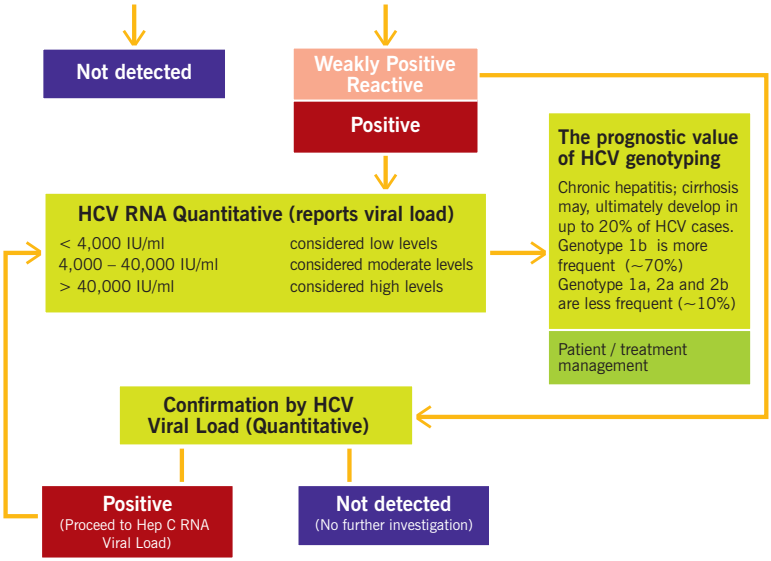
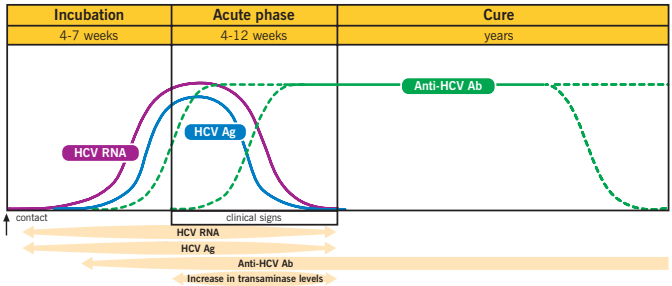
Hepatitis C Antibodies

Hepatitis C

- **Transmission**: Parenteral, nosocomial, sexual.
- **Clinical Signs**: Asymptomatic in 90% of cases.
- **Cure**: 95% of cases (adults).
- **Complications**: Cirrhosis and hepatocellular carcinoma.
- **Development of chronic form**: Yes (80% of adult cases).
- **Prevention**: Hygiene, no vaccination.
- **Main Marker**: Anti HCV Ab, HCV RNA





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See page 25 for sample-taking and special handling instructions.

HIV testing

TEST	CODE	SAMPLE REQS	TAT	PRICE
HIV-1 Proviral DNA	HIVP	A	7 days	£431.50
HIV Confirmation of Positive Screens (3 methodologies)	HIVC	B	1 day	£139.00
HIV/HBV/HCV Screen by PCR/ NAAT (10 days post exposure)	STDX	A 2 x 6mls or 2 x 4mls (Vacutainer only)	3 days	£200.50
HIV Rapid RNA HIV-1 QUALITATIVE	LHIV	A (Vacutainer only)	1 day	£184.00
HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	A (Vacutainer only)	1 day	£184.00
HIV Screening: HIV1 & 2 Abs/p24 Ag (4th Gen)	HDUO	B	1 day	£57.50
HTLV 1 & 2 Abs. (Human T Lymphotropic Virus Type I-II)	HTLV	B	1 day	£66.50
HTLV by PCR	HTLP	A	21 days	£355.00

HIV positive patient monitoring

TEST	CODE	SAMPLE REQS	TAT	PRICE
HIV-1 RNA Viral Load by PCR	HIV1	A A (2 x 6ml)	3 days	£184.00
HIV-2 RNA by PCR	HIV2	A	10 days	£355.00
HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	A (Vacutainer only)	1 day	£184.00
HIV Therapeutic Drug Monitoring	TDM	J [1]	21 days	£277.50
Lymphocyte Subsets (CD3/CD4/CD8)	LYSS	A	1 day	£257.00

HIV-1 genotypic resistance testing

TEST	CODE	SAMPLE REQS	TAT	PRICE
HIV-1 Genotypic Resistance (Integrase)	INTE	A A (2 x 6ml)	21 days	£678.00
HIV-1 Genotypic Resistance (RT & Protease)	HIVD	A A (2 x 6ml)	21 days	£678.00
HIV-1 Tropism	TRPM	A A (2 x 6ml)	28 days	£1,038.50
HLA B*57:01	HL57	A [9]	10 days	£349.00

HLA-B*57:01 should be tested before starting patients on an Abacavir (ABC) containing regimen to reduce the risk of hypersensitivity reaction. HLA-B*57:01-positive patients should not be prescribed ABC and a positive status should be recorded as an ABC allergy in the patient's medical record.

Virology – General

TEST	CODE	SAMPLE REQS	TAT	PRICE
Adenovirus by PCR	ADV	A / **PCR** / **VS**	7 days	£281.00
Arbovirus Antibodies/Abs	ARBO	B [9,14]	3 weeks	£193.00
Atypical Pneumonia Screen	APS	B	3 days	£140.00
BK Polyoma Virus by PCR	BKPV	A /**RU**	5 days	£236.00
Cat Scratch Fever (Bartonella IgG)	CAT	B	5 days	£208.50
CD3/CD4/CD8	LYSS	A	1 day	£257.00
Chikungunya Virus Abs	CHIK	B [9,14]	10 days	£193.00
CMV IgM Antibodies	CMVM	A (Plasma) or B (Serum)	1 day	£136.00
COVID-19 (SARS-CoV-2) (PCR) Contact Laboratory.	NCOV	**PCR Swab** (nasal/ pharyngeal)	1 day	£187.00
COVID-19 (SARS-CoV-2) RNA by PCR (Self-collect) Contact Laboratory.	NCOV	Aptima multisite swab of nose/throat	1 day	£187.00
CSF Screen by PCR	VPCR	**CSF**	2 days	£128.50
Cytomegalovirus (CMV-DNA) Amnio	CMVD	**AF**	5 days	£261.00
Cytomegalovirus (IgG/IgM) Antibodies	CMV	B	1 day	£85.00
Cytomegalovirus (PCR) Semen	SCVM	**Semen**	7 days	£261.00
Cytomegalovirus (PCR) Urine	CMVU	**RU**	5 days	£261.00
Cytomegalovirus Avidity	CMAV	B	10 days	£130.50
Cytomegalovirus DNA (PCR)	CMVP	A	5 days	£261.00
Cytomegalovirus Resistance	CMVR	A (6mls)	21 days	£659.00
Dengue Fever PCR	DPCR	A or B [9,14]	2 weeks	£285.50
Epstein-Barr Virus Antibodies IgG/IgM	EBVA	B	2 days	£159.00
Epstein-Barr Virus PCR	EBVQ	A	5 days	£154.50
Hantavirus Serology	HANV	B [9]	10 days	£138.00
Herpes Simplex (HSV) 1 & 2 – Genital lesion (Self-collect)	HERS	Aptima multisite swab	5 days	£93.00
Herpes Simplex (HSV) 1 & 2 – Oral lesion (Self-collect)	HERS	Aptima multisite swab	5 days	£93.00
Herpes Simplex (HSV) 1 & 2 (PCR) (Oral or Genital)	HERS	**PCR**	5 days	£93.00
Herpes Simplex I/II Antibody Profile (IgG)	HERP	B	2 days	£80.00
Herpes Simplex I/II by PCR (Urine)	HERD	**FCRU**	5 days	£93.00
Herpes Simplex I/II IgM	HERM	B	2 days	£80.00
HIV/HBV/HCV Screen by PCR/ NAAT (10 days post exposure)	STDX	A 2 x 6mls or 2 x 4mls (Vacutainer only)	3 days	£200.50

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Virology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Human Herpes Virus – 6 by PCR	HHV6	A	5 days	£181.50
Human Herpes Virus – 8 (IgG)	HHV8	B	10 days	£103.50
Human Herpes Virus – 8 by PCR	HV8D	A	5 days	£205.00
Human Parvovirus B19 – DNA	PCRP	A	2 weeks	£213.50
JC Polyoma Virus by PCR	JCPV	A / **CSF**	5 days	£236.00
Measles Antibodies (IgG) Immunity	MEAS	B	1 day	£76.00
Measles Antibodies (IgM)	MEAM	B [9]	2 days	£76.00
Measles PCR	MEAP	**Buccal swab**	48 hours	£147.00
MERS Coronavirus Test	MERS	**J**	1 day	£185.00
Mumps Antibodies (IgG)	MUMP	B	1 day	£76.00
Mumps Antibodies (IgM)	MUMM	B	1 day	£76.00
Mycoplasma pneumoniae IgM and IgG	MYCO	B	2 days	£67.50
Mycoplasma species – DNA	MPCR	A	5 days	£226.50
Needle Stick Injury Profile	NSI	B B	1 day	£192.00
Neurological Viral Screen	NVIR	B B	2 days	£190.00
Parvovirus Antibodies (IgG)	PARG	B	2 days	£85.00
Parvovirus Antibodies (IgM)	PARV	B	2 days	£94.50
Parvovirus IgG/IgM Abs	PARP	B	2 days	£97.00
Pneumonia (Atypical) Screen	APS	B	3 days	£140.00
Respiratory PCR Panel (COVID-19, Flu A/B and RSV) (PCR)	FLU4	**PCR** nasopharyngeal swab	2 days	£234.50
Respiratory PCR Panel (COVID-19, Flu A/B and RSV) (Self-collect)	FLU4	Aptima multisite swab of nose/throat	2 days	£234.50
Rotavirus in Stool by PCR	ROTA	**RF**	1 day	£104.00
Rubella Antibody (IgG)	RUBE	B	1 day	£56.50
Rubella Antibody (IgM)	RUBM	B	1 day	£80.00
Rubella Avidity	RUAV	B	1 week	£151.00
Torch Screen	TORC	B	2 days	£198.50
Varicella zoster – DNA	VZPC	A	5 days	£285.50
Varicella zoster Antibodies (IgG)	VZOS	B	1 day	£80.00
Varicella zoster Antibodies (IgM)	VZOM	B	1 day	£80.00
Viral Antibody Screen	VIRA	B B	2 days	£190.00
Viral Eye by PCR	VPE	**PCR**	3 days	£128.50
Viral Respiratory RNA Screen by PCR	VPR	**PCR** or as specified on the form	2 days	£328.00
Viral Respiratory RNA Screen by PCR (Self-collect)	VPR	Aptima multisite swab of nose/throat	2 days	£328.00

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Virology

TEST	CODE	SAMPLE REQS	TAT	PRICE
Viral Skin/Mucosa by PCR	**VPSK**	**PCR**	5 days	£115.00
West Nile Virus Abs	**WNV**	B	2 weeks	£245.00
Zika Abs IgM and IgG – Antibody detection from 15 days	**ZKAB**	B	Up to 14 days	£129.50
Zika RNA by PCR in Semen	**ZIKS**	**Semen**	Up to 14 days	£318.00

Atypical Pneumonia Screen

Mycoplasma pneumonia Abs
Chlamydia pneumoniae (MIF)
Legionella pneumophila (IF)

TAT: 3 days

APS £140.00

B

Respiratory PCR Panel (COVID-19, Flu A/B and RSV) (PCR)

Flu A
Flu B
Respiratory Syncytal Virus (RSV)
COVID-19

TAT: 2 days

FLU4 £234.50

PCR nasopharyngeal swab

CSF Screen by PCR

Herpes Simplex virus
Varicella zoster virus
Enterovirus
Parechovirus

TAT: 2 days

VPCR £128.50

CSF

Hepatitis (Acute) Screen

Hepatitis A (IgM)
Hepatitis B Surface Antigen
Hepatitis C Antibodies

TAT: 1 day

AHSC £184.00

B

Hepatitis A, B & C Profile

Hepatitis A Profile
Hepatitis B Profile
Hepatitis C Antibodies
Liver Function Tests (LFT)

TAT: 1 day

ABC £301.50

B B

Hepatitis B Profile

Hepatitis B Surface Antigen
Hepatitis B Surface Antibodies
Hepatitis B Core IgG/IgM

TAT: 1 day

HEPB £138.00

B

HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure)

Positive findings will be reflexed for confirmatory testing

HIV1 and HIV2 (RNA)
Hepatitis B Virus (HBV DNA)
Hepatitis C Virus (HCV RNA)

Samples must be received in the laboratory within 2 days of sample taking

STDX provides diagnostic confirmatory testing only when used in addition to serology for Ag/Ab HIV-1&2, HBV, HCV

TAT: 3 days

STDX £200.50

A 2 x 6mls or 2 x 4mls (Vacutainer only)

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

HIV Rapid RNA HIV-1 QUALITATIVE

Early detection from 10 days

HIV-1 RNA

Sample must be received in the laboratory within 24 hours of sample taking

TAT: 1 day

LHIV	£184.00

Ⓐ (Vacutainer only)

HIV Rapid RNA HIV-1 QUANTITATIVE

Rapid testing for HIV-positive patient prognosis and response to antiretroviral therapy

HIV-1 RNA VIRAL LOAD (40 copies/ml)

Sample must be received in the laboratory within 24 hours of sample taking

TAT: 1 day

RHIV	£184.00

Ⓐ (Vacutainer only)

Needle Stick Injury Profile

(Donor – Not recipient)

Hepatitis B Surface Antigen
Hepatitis C Antibodies
HIV 1 & 2/p24Ag

Serum saved for 2 years

TAT: 1 day

NSI	£192.00

ⒷⒷ

Neurological Viral Screen

Measles IgG
Measles IgM
Mumps IgG
Mumps IgM
CMV IgG
HSV 1+2 IgG
HSV 1+2 IgM
VZV IgG

TAT: 2 days

NVIR	£190.00

ⒷⒷ

Torch Screen

Toxoplasma Antibodies (IgG, IgM
Rubella Antibody (IgG, IgM)
CMV Antibody (IgG, IgM)
HSV Antibody (HSV1/HSV2 IgG)

TAT: 2 days

TORC	£198.50

Ⓑ

Viral Antibody Screen

Measles IgG
Measles IgM
Mumps IgG
Mumps IgM
Mycoplasma pneumonia
CMV
HSV 1
HSV 2

TAT: 2 days

VIRA	£190.00

ⒷⒷ

Viral Eye by PCR

Herpes Simplex virus
Varicella zoster virus
Adenovirus

TAT: 3 days

VPE	£128.50

PCR

Viral Respiratory RNA Screen by PCR

Throat swabs, nasopharyngeal aspirates

Adenovirus
Parainfluenza 1,2,3,4
Influenza A and B
Coronavirus (seasonal)
SARS-CoV-2 (COVID-19)
Parechovirus
Rhinovirus
Enterovirus
Respiratory Syncytial virus A and B
Human metapneumovirus

TAT: 2 days

VPR	£328.00

PCR or as specified on the form

Viral Skin/ Mucosa by PCR

If chicken pox or shingles suspected, please indicate clearly on request form

Herpes Simplex virus
Varicella zoster virus

TAT: 5 days

VPSK	£115.00

PCR

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Tumour Markers/Sites

TEST	CODE	SAMPLE REQS	TAT	PRICE
Alpha-Fetoprotein	AFP	B	1 day	£60.00
Breast Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£850.00
CA 15-3	C153	B	1 day	£127.00
CA 19-9	C199	B	1 day	£127.00
CA 50	CA50	B	5 days	£157.50
CA 72-4	C724	B	5 days	£136.00
CA 125 (Self-collect)	C125	B (TDL Tiny)	1 day	£127.00
CA 125 (Venous)	C125	B	1 day	£127.00
Carcino Embryonic Antigen	CEA	B	1 day	£80.00
Complex PSA (Prostate Specific Ag)	CPSA	B	3 days	£80.00
Cyfra 21-1	CY21	B	4 days	£198.50
HCG (Oncology)	HCGQ	B	1 day	£60.00
HE4 + ROMA (Earlier Detection of Ovarian Tumour)	HE4	B	1 day	£139.00
Neurone Specific Enolase	NSE	B	5 days	£184.00
Osteocalcin	OST	B (Frozen)[4]	4 days	£216.00
Prostate Profile (Total & Free PSA)	PR2	B	1 day	£97.00
Prostate Specific Antigen (Total) (Self-collect)	PSPA	B (TDL Tiny)	1 day	£71.50
Prostate Specific Antigen (Total) (Venous)* * Results that fall between 4.00 ug/L and 10.00 ug/L will automatically reflex to a Free PSA with a calculated ratio. The ratio of Free to Total PSA may help discriminate between prostate cancer and benign prostatic hyperplasia.	PSPA	B	1 day	£71.50
Pyruvate Kinase (M2-PK)	M2ST	**RF** [4]	5 days	£99.50
Pyruvate Kinase (M2-PK)	M2PK	A (Frozen plasma)[7]	5 days	£99.50
S100 Malignant Melanoma	S100	B	4 days	£138.00
Squamous Cell Carcinoma	SCC	B	4 days	£211.50
Stockholm3 NEW Samples must be received by TDL within 24 hours of sample taking.	STK3	A A	2 weeks	£310.00
Stockholm3 Reflex NEW Sample must be received by TDL within 24 hours of sample taking.	STKR	A A B	2 weeks	£310.00
Testicular Tumour Profile (LDH, AFP, HCQG)	TTP	B	1 day	£134.00
Urinary Bladder Cancer Antigen ** It is recommended to collect mid-stream urine. Do not use first morning urine. Collection of urine specimen before any surgical intervention or treatment or 1–2 weeks after specimen shall not be collected with an instrument e.g. catheter.	UBC	**RU** (Freeze within 48 hours)**	5 days	£93.00

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Tumour Markers/Sites

Site	Tumour marker	Sample type	Turnaround time
Oesophagus	CA19-9	serum	1 day
	CEA	serum	1 day
	SCC	serum	4 days

Site	Tumour marker	Sample type	Turnaround time
Bronchial/ Lung	NSE*	serum	5 days
	SCC*	serum	4 days
	CEA	serum	1 day
	Cyfra 21-1	serum	4 days

Site	Tumour marker	Sample type	Turnaround time
Bile duct	CA19-9	serum	1 day
	CEA	serum	1 day

Site	Tumour marker	Sample type	Turnaround time
Pancreas	CA19-9	serum	1 day
	CEA	serum	1 day

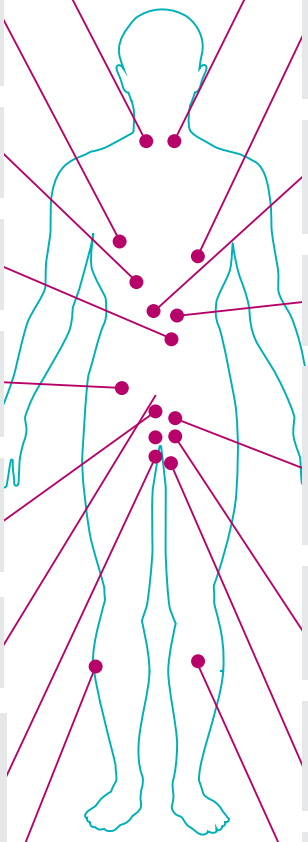
Site	Tumour marker	Sample type	Turnaround time
Carcinoid	5-HIAA	24 hour urine/ acidified	5 days

Site	Tumour marker	Sample type	Turnaround time
Bladder/ Chorion	CEA	serum	1 day
	CA 50	serum	5 days
	UBC	urine	5 days

Site	Tumour marker	Sample type	Turnaround time
Cervix/ Uterus	SCC	serum	4 days
	CEA	serum	1 day

Site	Tumour marker	Sample type	Turnaround time
Prostate	Prostate Profile (Total + Free PSA)	serum	1 day
	Stockholm3 STK3/STKR	EDTA	2 weeks

Site	Tumour marker	Sample type	Turnaround time
Melanoma	S-100	serum	4 days



Site	Tumour marker	Sample type	Turnaround time
Thyroid	CEA	serum	1 day
	Thyroglobulin	serum	1 day
	Calcitonin	1ml Frozen serum	1 day

Site	Tumour marker	Sample type	Turnaround time
Breast	Breast Cancer NGS Panel	EDTA	4 weeks
	CA15-3	serum	1 day
	CEA	serum	1 day

Site	Tumour marker	Sample type	Turnaround time
Liver	AFP	serum	1 day
	CEA	serum	1 day
	Ferritin	serum	1 day

Site	Tumour marker	Sample type	Turnaround time
Gastro-intestine	CEA	serum	1 day
	CA19-9	serum	1 day

Site	Tumour marker	Sample type	Turnaround time
Ovary	Ovarian Cancer NGS Panel	EDTA	4 weeks
	CA125	serum	1 day
	CA15-3	serum	1 day
	HE4	serum	1 day
	AFP	serum	1 day

Site	Tumour marker	Sample type	Turnaround time
Colon	CEA	serum	1 day
	CA19-9	serum	1 day
	CA 50	serum	5 days

Site	Tumour marker	Sample type	Turnaround time
Testes	AFP	serum	1 day
	HCG (quantitative)	serum	1 day

Site	Tumour marker	Sample type	Turnaround time
	Osteocalcin	serum (frozen)	4 days

* NSE: Neurone Specific Enolase
SCC: Squamous Cell Carcinoma

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

HE4 + ROMA (Earlier Detection of Ovarian Tumour)

HE4
CA 125
ROMA

Calculated Algorithm for pre and post menopausal risk of malignant disease.

TAT: 1 day

HE4	£139.00

B

Prostate Profile (Total & Free PSA)

Prostate Specific Antigen (Total)
Free PSA
Calculated Ratio

The ratio of Free to Total PSA may help discriminate between prostate cancer and benign prostatic hyperplasia.

TAT: 1 day

PR2	£97.00

B

Testicular Tumour Profile

Lactate Dehydrogenase (LDH)
Alpha-Fetoprotein
HCG (Oncology)

TAT: 1 day

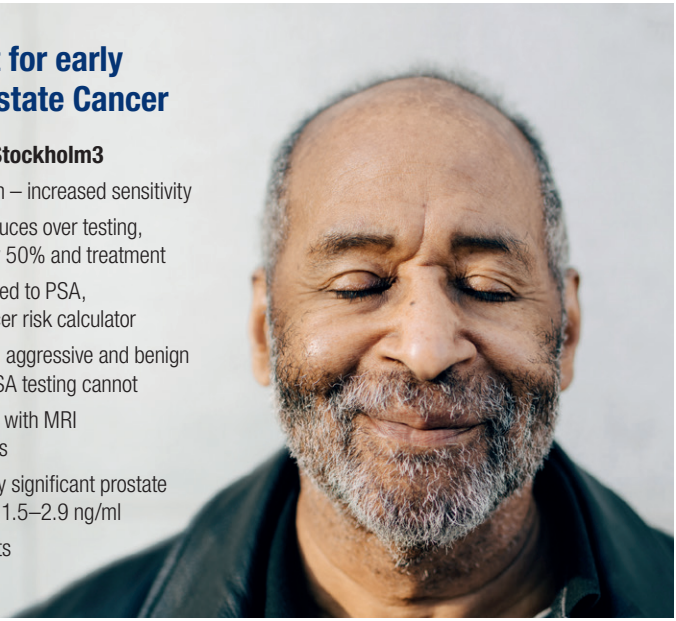
TTP	£134.00

B

Stockholm3 test for early detection of Prostate Cancer

Key characteristics of Stockholm3

- Increased early detection – increased sensitivity
- Increased specificity reduces over testing, unnecessary biopsies by 50% and treatment
- Higher accuracy compared to PSA, PSAD and prostate cancer risk calculator
- Can distinguish between aggressive and benign tumours in a way that PSA testing cannot
- Validated in combination with MRI and in multiple ethnicities
- Shown to detect clinically significant prostate cancers in PSA levels of 1.5–2.9 ng/ml
- Reduces healthcare costs



Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

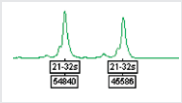
TDL Genetics

TDL Genetics is a consultant-led service which is able to provide extensive expertise in the testing, diagnosis and genetic counselling of inherited disorders. Genetic tests are performed on DNA for molecular genetic analysis and on whole chromosomes for cytogenetic analysis. Some tests are part of profiles that can be linked with assays from other TDL disciplines, such as biochemistry and haematology, to give more comprehensive results for the patient.

Genetic tests are available for:

- Prenatal diagnosis and rapid trisomy screening by QF-PCR (Amnio-PCR and CVS-PCR)
- Carrier screening
- Newborn chromosome analysis
- Confirmation of symptomatic individuals and pre-symptomatic testing
- Genetic variation that influences risk of disease
- Identity studies (paternity, zygosity, tissue typing)
- Fertility studies
- Products of conception
- Cancer

QF-PCR: DNA peaks from an unaffected fetus



QF-PCR: DNA peaks from a fetus with Down Syndrome

Genetic testing is sometimes complex and tests will vary in their ability to detect variants or to detect all patients who have, or will develop, the disease. Some tests are diagnostic for a condition, others are indicative or are associated with an altered risk for a condition. Results can affect the lives of individuals and have implications for their family, for insurance and employment. Where testing will predict the inheritance of a disease in a healthy person, counselling and consent are mandatory.
For these tests, please complete the Genetic Request form (including informed consent). Our service provides result interpretation and risk assessment. Genetic counselling can be arranged by TDL's Consultant Clinical Geneticist.

SCAN ME

Download TDL Request Forms from:

www.tdlpathology.com/tests/request-forms/

To meet the increasing range and complexity of genetic testing we have developed an excellent collaboration with other specialist laboratories.

Tests marked GENE are sent to these laboratories within our network and have a fixed price.

GENE panel composition may change throughout the year to reflect new and improved developments. Turnaround times may be longer if follow-up studies are required.

Specimen Receipt at The Doctors Laboratory is 24 hours a day. Specifically, TDL Genetics results service is available Monday to Friday 8.30am–5.30pm with the laboratory also open for processing of samples on Saturdays from 9.00am–1.00pm. The Non-invasive prenatal testing (NIPT) laboratory is open Monday to Saturday.

Test codes, sample requirement codes, turnaround times, and prices may be found on the following pages.

All samples must be collected in the specified containers, as shown in the key at the back of this guide. Samples should be fresh and in good condition (e.g. not clotted if EDTA or heparinised whole blood is required) otherwise testing may be adversely affected and another sample may be required. Small DNA samples are stored routinely for one year, larger DNA samples can be stored by special arrangement.

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Instructions for transportation, sample labelling, and the completion of request forms can be found on the reverse of the TDL Genetics Request Form.

The locations of the Laboratory and Patient Reception are indicated on the map on the reverse of each request form. If you do not find the test you require in this directory or need more information and advice please telephone the laboratory on **020 7307 7409**.

Sending samples to the laboratory

Transport arrangements

All specimens should be kept at room temperature and despatched to the laboratory as soon as possible, by TDL/international courier, first class post, guaranteed next day delivery or a reliable alternative.

If a delay in sending the sample is unavoidable, please refrigerate overnight – DO NOT FREEZE. For NIPT sample stability see page 134, do not refrigerate or freeze NIPT bloods.

Specimens must not be allowed to come in contact with request forms, but should be kept separate by using dual – pocketed plastic bags. Specimens for inland postage must be packed in a rigid crush-proof container according to current Post Office guidelines.

IATA guidelines should be followed for international transport (advice is available from the laboratory).

Labelling of high risk samples

Please note that it is the responsibility of the referring clinician to ensure that high-risk samples are clearly identified to reduce the risk of infection to staff and others.

Patient details on request forms and samples

Request and consent forms are available directly from TDL Genetics. In order to avoid unnecessary time spent in obtaining details please provide the following information:

Information for request forms

- Surname, forename (not initials), date of birth and birth sex of patient for postnatal referrals
- Full name (not initials) and location of referring clinician
- Full address of clinician to whom the result should be sent
- Legible clinical summary (reason for referral), including details of any relevant family history
- Address for billing – doctor, patient or other
- Gestation on prenatal samples
- Hospital or reference number
- Test required

Essential information on sample container label

- Patient's surname and forename (not initials)
- Date of birth
- Hospital number or reference number

Consent forms

Consent forms (see tdlpathology.com/tests/request-forms) are available for genetic testing. As genetic testing may have implications for other family members and is regarded as personal data, it is recommended that written consent is obtained wherever possible. In cases with predictive testing for severe disorders, as indicated in the laboratory guide, it is essential that patients should also be offered formal genetic counselling. It is the responsibility of the referring clinician to obtain appropriate consent from the patient.

Always provide clinical details and family history for genetic tests. Practice discounts do not apply to tests with the GENE code.
See page 25 for sample-taking and special handling instructions.

Unlabelled samples

Unlabelled samples will ONLY be processed if the individual who took the sample can confirm the sample is from the patient in question. In the absence of this assurance, the sample will be discarded and a repeat required.

Genetic testing

The importance of clinical details

Clinical details are very important when providing genetic analysis. The more clinical information that is available (e.g. details of ultrasound information, phenotypic features or family history) the better the service we can provide. Failure to provide this information for cytogenetic studies may result in an inaccurate analysis.

Molecular genetics

Clinical details can be extremely important for clinical interpretation of a molecular genetic test.

For example, the clinical comments accompanying a cystic fibrosis screening report will vary depending on whether the patient is a potential gamete donor or a person exhibiting a cystic fibrosis phenotype.

It may also be crucial, where a variant has already been shown to be segregating in a family, to be provided with information concerning the variant and a family pedigree to ensure the correct analysis is performed and reliable risk figures calculated.

Cytogenetics

Cytogenetic analysis is performed according to the Professional Guidelines for the Association of Clinical Genomic Science and the recommendations provided are dependent on the clinical indications given for each case.

Clinical details inform the investigation at all stages:

- Prior to analysis, clinical details may indicate, for example, that procedures such as chromosome breakage or leukaemic studies are required, which must be referred to the oncogenomic department or specialist centre.
- During analysis they may indicate that extra cells should be screened to investigate the possibility of mosaicism, for example in a diagnosis of suspected Turner syndrome, or that particular chromosomes must be targeted for high-resolution study, for example chromosome 22q11.2 in suspected DiGeorge syndrome.
- When the analysis has been completed they may help to provide an accurate interpretation of the findings and in some instances prompt further investigations, for example FISH or molecular genetic studies.

When clinical details are not available a routine analysis will be performed and a conditional report issued.

Sample Stability

Molecular Genetic Samples

Whole blood collected in EDTA should be sent to the laboratory between 4˚C-28˚C within 48 hours.

Long term storage should be at 2-8°C.

Extracted DNA samples should be sent to the laboratory between 4˚C-28˚C.

Cytogenetic Samples

Cytogenetic studies require living cells, please ensure that samples reach the laboratory as soon as possible. If a delay before dispatch is unavoidable, samples may be stored in a refrigerator (4°C) but they must not be frozen.

Samples sent more than 48 hours after sampling, or kept at temperatures below 4˚C and greater than 38˚C may have inhibited growth.

Information concerning packaging, transportation, and labelling of samples is provided on the reverse of our TDL Genetics Request Form.

Requesting additional tests

Any further tests not requested at the time of sample receipt must be requested within:

- 1 week for tests requiring prenatal culture or cultured cells
- 2 weeks for DNA testing
- 2 weeks for cell culture testing
- 3 months for FISH testing

Samples can be stored for longer periods if specifically requested at the time of sample receipt.

Postnatal Diagnosis (Blood Culture)

Reasons for analysis: Chromosome studies are requested where problems that may have a cytogenetic basis are suspected, e.g. babies with birth defects; children with developmental delay and physical handicaps, delayed puberty, or adults with fertility problems. Additionally, prospective gamete donors are screened to detect carriers of balanced chromosome rearrangements.

Sample requirements: Lithium heparin whole blood specimens are required – gently mixed to prevent clotting and must not be frozen. See sample stability section for cytogenetic samples. Sample volumes may be reduced for children (2-4ml) and neonates (1-2ml).

Turnaround time: The usual turnaround time is 2-3 weeks however the laboratory will endeavour to respond to urgent requests. Where a major trisomy is suspected, a rapid PCR screen may be performed to provide an urgent provisional result.

Notes

- Rarely, blood samples fail to culture (<1%);
- The culture may yield chromosomes of insufficient quality. This will be indicated on the report and a repeat study suggested;
- The laboratory should be informed if the patient has recently received a blood transfusion.
- The laboratory should be informed if the patient has EVER had a bone marrow transplant.
- The patient's birth sex should be included on the request form.
- For fetal blood samples a maternal blood sample must also be provided to confirm fetal origin.

Prenatal diagnosis

Reasons for analysis: Chromosome studies are requested where pregnancies are identified as being at risk of a cytogenetic abnormality e.g. positive maternal serum screening combined NT test; fetal abnormalities found on ultrasound; or where a parent is a known carrier of a chromosome anomaly, or where a high risk trisomy has been found by NIPT.

Sample requirements:

- Amniotic fluid – 10ml+ in a plain sterile, leak-proof container. Suitable containers can be provided by the laboratory. The specimen must not be frozen. See sample stability section for cytogenetic samples.
- Chorionic villus – 5mg+ in sterile transport medium. Suitable containers containing medium can be provided by the laboratory. The specimen must not be frozen. See sample stability section for cytogenetic samples.

- Fetal blood – 1-2ml LITHIUM HEPARIN whole blood, gently mixed to prevent clotting. The specimen must not be frozen. See sample stability section for cytogenetic samples. For fetal blood samples a maternal blood sample must also be provided to confirm fetal origin.

Turnaround time: This is dependent on the rate of cell growth, however, the usual turnaround time is approximately 2 weeks. A number of circumstances now occur more frequently, as invasive prenatal diagnosis becomes less common, that may result in delayed reporting time. These include:

- A delay in transportation in order to collect a batch of samples to reduce courier costs. Even when couriered promptly, sample growth may be slower than that seen in samples sent immediately.
- Sampling at early or late gestations, for example to confirm non-invasive tests or follow up anomaly scans.
- A tendency to take smaller quantities of sample or to take insufficient sample for multiple techniques.
- The request for karyotyping as an add-on after an initial PCR test.

Fetal blood results will usually be reported by 10 calendar days. For all other prenatal tests, please contact the laboratory prior to taking samples.

Notes

- Maternal contamination, and mosaicism may complicate the analysis and may lead to the suggestion that a second invasive test is performed.
- Rarely, cultures fail to grow (overall <1%)
- Chromosome abnormalities smaller than resolution of G-band analysis may not be detected (higher resolution techniques such as Array-CGH may be more appropriate in certain circumstances).
- For TTTs or heavily blood stained amniocentesis samples, please provide a maternal EDTA blood sample for comparison studies.

Solid tissue

Reasons for analysis: Fibroblast cultures may be used in addition to blood cultures, for example where tissue specific mosaicism is suspected, or where blood samples cannot be obtained. POC samples may be requested for early spontaneous miscarriages, stillbirths, or to confirm a prenatal diagnosis.

SCAN ME

For more information on Products of conception for genetic investigations

www.tdlpathology.com/poc

Sample requirements: All specimens should be placed in a sterile container, preferably containing transport medium. This can be supplied by the laboratory. Sterile normal saline can be used if transport medium is not available. Samples must not be placed in formaldehyde or other preservative and must not be frozen. See sample stability section for cytogenetic samples.

Turnaround time: This is dependent on the rate of cell growth, however, the usual turnaround time is approximately 4 weeks.

Notes

- Material from miscarriages has a relatively high culture failure rate (around 20%). Where failure occurs, alternative molecular methods may be attempted, usually a KaryoLite Bacs-on-Beads assay that can detect whole monosomy or trisomy of any chromosome, if possible.
- If no villus or fetal parts are identified in supposedly POC material and a normal female chromosome result is found, this may indicate that maternal tissue has been cultured (this will be noted on our report).

- If a request is made for remaining pregnancy loss tissue to be returned to the patient or hospital for burial or cremation, we will return the sample as soon as possible once adequate tissues have been used for testing. Please ensure that this is communicated to the lab using a hospital consent form, noted on the referral form or by email. Patients can arrange to collect remaining tissues from TDL Patient Reception.
- The lab will send all remaining tissue for samples without specific consent, for sensitive incineration. Please note that there is no distinction made between fetal and other pregnancy tissues for this process and there will be no ashes afterwards. The lab keeps detailed records of all pregnancy tissue sent for incineration and a Certificate of Destruction is available if required.

Fluorescence in situ hybridisation (FISH)

Where FISH studies for specific microdeletion syndromes are required this must be indicated on the request form.

Note: FISH studies for a rapid pre or postnatal aneuploidy screen have now been superseded in our laboratory by multiplex-PCR technology. Subtelomeric screens are now performed by Array CGH as part of developmental delay investigations. Common microdeletion syndrome testing is now performed by BOBs analysis.

Statement regarding Measurement Uncertainty (MU)

Measurement Uncertainty is determined for each measurement procedure in the examination phase used to report measured quantity values on patients' samples. This is determined during verification of this assay for service introduction; creation of laboratory standard operating procedures (SOP) and interpretation of the results.

Where examinations include a measurement step but do not report a measured quantity value, the laboratory calculates the uncertainty of the measurement step where it has utility in assessing the reliability of the examination procedure or has influence on the reported result.

Estimates of measurement uncertainty are regularly reviewed and are available upon request to laboratory users.

Key Personnel

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TDL Genetics

TEST	CODE	SAMPLE REQS	TAT	PRICE
1p36 Deletion Syndrome – karyotype + CGH	KARY, FISH	**CVS** / **AF** / (H) [9]	12-17 days	£847.50
21-Hydroxylase Deficiency (Congenital Adrenal Hyperplasia CYP21A2) Requires patient informed consent.	GENE	(A) [9,11]	5 weeks	£750.00
22q11 & 10p14 deletion (Di George Syndrome) – BOBs only	DGB	**CVS** / **AF** / (A) [9]	5 days	£260.00
22q11 & 10p14 deletion (Di George Syndrome) – BOBs (5 days) + karyotype (15 days)	DGB, KARY	**CVS** / **AF** / (A) (H) [9]	5-15 days	£728.00
Achromatopsia NGS Panel Requires patient informed consent.	GENE	(A) (A) [9]	5 weeks	£1,600.00
Adenomatous Polyposis NGS Panel	GENE	(A) [9]	4 weeks	£875.00
Aicardi-Goutières Syndrome NGS Panel Requires patient informed consent.	GENE	(A) (A) [9]	5 weeks	£1,600.00
Alagille Syndrome NGS Panel Requires patient informed consent.	GENE	(A) (A) [9]	6 weeks	£1,600.00
Alpha Thalassaemia – alpha globin gene sequencing + deletions/duplications	GENE	(A)	4 weeks	£600.00
Alpha Thalassaemia – multiplex PCR for common large deletions Requires patient informed consent.	GENE	(A) [9]	3 weeks	£200.00
Alpha-1-Antitrypsin Genotype – PI*M, PI*S, PI*Z Requires patient informed consent.	GENE	(A) [9]	3 weeks	£250.00
Alport Syndrome NGS Panel – full sequencing with deletions and duplications Requires patient informed consent.	GENE	(A) (A) [9]	5 weeks	£1,600.00
Alzheimer and Dementia NGS Panel Requires patient informed consent.	GENE	(A) [9,11]	6 weeks	£1,600.00
AML/ALL Molecular MRD – NPM1, PML-RARA, CBFB-MYH11, RUNX1-RUNX1T1, ETV6-RUNX1 Requires patient informed consent. Must arrive in the laboratory within 48 hours, before 12pm on Fridays. Contact lab for further information.	GENE	**Bone Marrow** / (A) [9]	5 days	£422.50
AmnioBOBs only – rapid aneuploidy diagnosis for all chromosomes + common microdeletion syndromes	ABOB	**AF** [9]	5 days	£260.00
Amniocentesis – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days)	ABK	**AF** [9]	5-15 days	£658.00
Amniocentesis – rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	APCC	**AF** [9]	2-15 days	£651.00
Amniocentesis culture (karyotype) only	ACUL	**AF** [9]	10-15 days	£450.00
AmnioPCR only – rapid common aneuploidy diagnosis by QF-PCR	APC	**AF** [9]	2 days	£291.50

Always provide clinical details and family history for genetic tests. Practice discounts do not apply to tests with the GENE code.
See page 25 for sample-taking and special handling instructions.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Amyotrophic Lateral Sclerosis (Motor Neurone Disease) NGS Panel Requires patient informed consent.	GENE	A A [9]	5 weeks	£1,600.00
Androgen Insensitivity – AR gene sequencing Requires patient informed consent.	GENE	A [9]	5 weeks	£750.00
Angelman Syndrome (Primary Screen) – methylation test	PWAM	A [9]	10 days	£496.50
Angelman/Rett Syndromes NGS Panel Requires patient informed consent.	GENE	A A [9]	5 weeks	£1,600.00
Aniridia, Isolated – PAX6 gene sequencing + deletions/duplications Requires patient informed consent.	GENE	A [9]	5 weeks	£750.00
Anophthalmia/Microphthalmia/ Coloboma NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Apolipoprotein E genotype – E2/E3/E4	APEG	A [9,11]	2 weeks	£235.50
Array-CGH (Comparative Genomic Hybridisation) SNP array	CGH	**CVS** / **AF** / A H [9]	10 days	£822.50
Ashkenazi Breast Cancer Screen – common variants Requires patient informed consent.	GENE	A [9,11]	4 weeks	£425.00
Ashkenazi Jewish Carrier Screen Requires patient informed consent. See Carrier Screen on page 133 for details	GENE	A [9]	4 weeks	£600.00
Ataxia NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Autoinflammation/Periodic Fever NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Azoospermia – karyotype + Y deletions + cystic fibrosis screen (+ polyT(5T) when clinically relevant)	GRP	A H [9]	10-15 days	£936.50
B cell Clonality Assay (IgH and IgK)	IGHA	A or **FFPE**	2 weeks	£444.00
Bardet-Biedl Syndrome NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Batten Disease (Neuronal Ceroid Lipofuscinosis) NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
BCR-ABL Diagnostic Assay	BCRD	A	2 weeks	£393.00
BCR/ABL Quantitative – fusion gene sizes p190 + p210 MUST arrive in the laboratory within 48 hours, before 12pm on Fridays.	BCRQ	A A [9]	10 days	£367.50
Becker/Duchenne Muscular Dystrophy – deletions/duplications	DMD1	A [9]	10 days	£719.50

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

TDL Genetics

TEST	CODE	SAMPLE REQS	TAT	PRICE
Beckwith-Wiedemann Syndrome – methylation studies on 11p15 imprinting domains KvDMR + H19 Requires patient informed consent.	GENE	A [9,11]	6 weeks	£600.00
Behcet's Disease – HLA Tissue Typing B*51	B51	A [9]	10 days	£240.50
Beta Thalassaemia – beta-globin gene sequencing + deletions/duplications Requires patient informed consent.	GENE	A [9]	4 weeks	£600.00
Bleeding and Platelet Gene Panel Requires patient informed consent. Contact lab.	R90U	A A [9]	12 weeks	£1,138.50
Blood PCR for Chromosome 13, 18, 21 and sex chromosomes	BPCR	A	5 days	£267.00
Breast Cancer – BRCA1 + BRCA2 genes only Requires patient informed consent.	GENE	A [9,11]	4 weeks	£450.00
Breast Cancer Ashkenazi Screen – common variants Requires patient informed consent.	GENE	A [9,11]	4 weeks	£425.00
Breast Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£850.00
Brugada Syndrome/Long QT Syndrome NGS Panel Requires patient informed consent.	GENE	A A [9]	4-6 weeks	£1,100.00
C-KIT D816V variant – Mastocytosis Requires patient informed consent.	GENE	**Bone Marrow** / A [9]	4 weeks	£200.00
CADASIL – NOTCH3 gene sequencing Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
CAKUT (Congenital Anomalies of Kidney & Urinary Tract) NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Cancer, Comprehensive NGS Panel Requires patient informed consent.	GENE	A A [9,11]	5 weeks	£1,200.00
Cardiomyopathy, Dilated NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,100.00
Cardiomyopathy, Hypertrophic NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,100.00
Cardiovascular, Comprehensive NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Carrier Screen (Ashkenazi Jewish) Requires patient informed consent.	GENE	A [9]	4 weeks	£600.00
Carrier Screen (Ashkenazi Jewish) – Partnered Report Requires patient informed consent. Please contact the lab for special requirements before sending.	GENE	A [9]	4 weeks	£750.00
Carrier Screen (Pan-Ethnic) Requires patient informed consent.	GENE	A [9]	4 weeks	£600.00

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See page 25 for sample-taking and special handling instructions.

TDL Genetics

TEST	CODE	SAMPLE REQS	TAT	PRICE
Carrier Screen (Pan-Ethnic) – Partnered Report Requires patient informed consent. Please contact the lab for special requirements before sending.	GENE	A [9]	4 weeks	£750.00
Charcot-Marie-Tooth Syndrome NGS Panel Requires patient informed consent. Contact lab prior to sending. Referral from clinical neurologist or clinical geneticist required with genetic consent form.	GENE	A A [9]	6 weeks	£1,600.00
Charcot-Marie-Tooth Type 1A – PMP22 duplications Requires patient informed consent. Contact lab prior to sending. Referral from clinical neurologist or clinical geneticist required with genetic consent form.	GENE	A [9]	6 weeks	£425.00
CHARGE Syndrome – CHD7 gene sequencing Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Cholestasis NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Chromosome Analysis (Amniocentesis) – culture only	ACUL	**AF** [9]	10-15 days	£450.00
Chromosome Analysis (Amniocentesis) – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days)	ABK	**AF** [9]	5-15 days	£658.00
Chromosome Analysis (Amniocentesis) – rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	APCC	**AF** [9]	2-15 days	£651.00
Chromosome Analysis (Blood)	KARY	H [9]	2-3 weeks	£469.00
Chromosome Analysis (Chorionic Villus) – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days)	CBK	**CVS** [9]	5-15 days	£658.00
Chromosome Analysis (Chorionic Villus) – rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	CVPC	**CVS** [1,9]	2-15 days	£614.00
Chromosome Analysis (Chorionic Villus) – culture only	CVSC	**CVS** [1,9]	10-15 days	£450.00
Chromosome Analysis (Products of Conception)	PROC	**Placental Sample** [1,9]	20-25 days	£488.50
Chromosome Analysis (Products of Conception) – BOBs rapid aneuploidy diagnosis for all chromosomes (10 days) + culture (25 days)	PBK	**Placental Sample** [1,9]	10-25 days	£658.00
Chromosome Analysis (Solid Tissue)	PROC	**Fetal tissue** [1,9]	4-5 weeks	£488.50
Chromosome Y Deletion – AZFa, AZFb, AZFc + SRY	YDEL	A [9]	5 days	£253.50
Coeliac Disease – HLA DQ2/DQ8 Genotype	Q2Q8	A [9]	10 days	£209.50
Colorectal Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£850.00
Comparative Genomic Hybridisation (CGH) SNP array	CGH	**CVS / AF /** A H [9]	10 days	£822.50

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TDL Genetics

TEST	CODE	SAMPLE REQS	TAT	PRICE
Congenital Absence of Vas Deferens – karyotype + Y deletions + cystic fibrosis screen (+ polyT(5T) when clinically relevant)	GRP	A H [9]	10-15 days	£936.50
Congenital Adrenal Hyperplasia NGS Panel	GENE	A [9]	6 weeks	£1,600.00
Congenital Myopathy NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Connective Tissue Disorders NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Cornelia de Lange Syndrome NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,200.00
Craniosynostosis NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Cri du Chat Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	**CVS** / **AF** / A H [9]	5-15 days	£728.00
Cri du Chat Syndrome – BOBs only	PBOB	**CVS** / **AF** / A [9]	5 days	£260.00
CVS PCR for common aneuploidies (2 days) + culture (10-15 days)	CVPC	**CVS** [1,9]	2-15 days	£614.00
CVSBOBs – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days)	CBK	**CVS** [9]	5-15 days	£658.00
CVSBOBs only – rapid aneuploidy diagnosis for all chromosomes + common microdeletion syndromes	CBOB	**CVS** [9]	5 days	£260.00
Cystic Fibrosis (139 common variants) – reflex to Poly T when required Please provide relevant clinical and family history.	CFS	A [9]	5-7 days	£329.50
Cytochrome P450 2C19	2C19	A [9]	10 days	£472.50
Diabetes – Obesity NGS Panel Requires patient informed consent.	GENE	A	6 weeks	£1,600.00
DiGeorge Syndrome (22q11 & 10p14 deletion) – BOBs (5 days) + karyotype (15 days)	DGB, KARY	**CVS** / **AF** / A H [9]	5-15 days	£728.00
DiGeorge Syndrome (22q11 & 10p14) – BOBs only	DGB	**CVS** / **AF** / A [9]	5 days	£260.00
Dihydropyrimidine Dehydrogenase deficiency screening (Fluoropyrimidine Toxicity)	5FU	A [9]	1-2 weeks	£374.00
Dilated Cardiomyopathy NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,100.00
DNA Extraction & Storage – 3 years (longer upon request)	XDNA	A [9]	20 days	£184.50
DNA Identity Profile – 15 STR markers	DNAF	A [9,11]	10 days	£399.00
Duchenne Muscular Dystrophy – deletions/duplications only	DMD1	A [9]	10 days	£719.50

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See page 25 for sample-taking and special handling instructions.

TDL Genetics

TEST	CODE	SAMPLE REQS	TAT	PRICE
Duchenne Muscular Dystrophy – full sequencing DMD1 gene Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
DVT/Pre-travel Screen	DVT1	A A B [9]	5 days	£286.50
Ehlers-Danlos Syndrome NGS Panel	GENE	A [9,11]	6 weeks	£1,600.00
Endometrial Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£1,100.00
Epidermolysis Bullosa NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Epilepsy, Adolescent/Adult Onset Panel Requires patient informed consent.	GENE	A	6 weeks	£1,100.00
Epilepsy, Comprehensive NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Fabry Disease, X-linked – GLA gene sequencing	GENE	A [9]	4 weeks	£740.00
Facioscapulohumeral Muscular Dystropy (FSHD) – D4Z4 repeat deletion Requires patient informed consent. Contact lab prior to sending. Referrals only from consultant neurologist or clinical geneticist. Genetic consent form required.	GENE	A A [9]	9 weeks	£1,250.00
Factor II Prothrombin – G20210A Variant	FX2	A [9]	5 days	£216.00
Factor V Leiden – G1691A Variant	FX5	A [9]	5 days	£216.00
Familial Hypercholesterolaemia NGS panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£650.00
Familial Hypocalciuric Hypercalcaemia (FHH) Panel Requires patient informed consent.	GENE	A A [9]	6-7 weeks	£1,200.00
Familial Mediterranean fever MEFV gene sequencing Requires patient informed consent.	GENE	A [9]	5 weeks	£750.00
Familial Medullary Thyroid Carcinoma – hotspot sequencing RET gene Requires patient informed consent.	GENE	A [9,11]	6-7 weeks	£700.00
Fatty Acid Oxidation Deficiency NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
FLT3-ITD and FLT3-TKD screening assay	FLT3	A	24 hours	£456.00
Fragile X Syndrome screen – FMR1 repeat analysis PCR Requires patient informed consent.	GENE	A A [9]	5 weeks	£350.00
Friedreich Ataxia – frataxin gene repeat analysis Requires patient informed consent.	GENE	A [9]	5 weeks	£300.00
Gaucher Disease full gene sequencing	GENE	A [9]	6 weeks	£750.00
Genetic Reproductive Profile (Male)	GRP	A H [9]	10-15 days	£936.50

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TDL Genetics

TEST	CODE	SAMPLE REQS	TAT	PRICE
Gilbert Syndrome – common UGT1A1 repeat variation Requires patient informed consent.	GENE	A [9]	2-3 weeks	£300.00
Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency – full G6PD gene sequencing Requires patient informed consent.	GENE	A [9]	3-4 weeks	£700.00
Glycogen storage disease type 2 (Pompe) variant analysis	POMP	A	4 weeks	£1,037.50
Haemochromatosis – HFE common variants C282Y + H63D	HMD	A [9]	3 days	£234.50
Haemophilia A (Factor VIII deficiency) – CVS	8CVS	**CVS** [40]	3 days	£652.50
Haemophilia B (Factor IX deficiency) – CVS	9CVS	**CVS** [40]	3 days	£652.50
Hearing Loss NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Hereditary Colorectal Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£850.00
Hereditary Comprehensive Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	5 weeks	£1,250.00
Hereditary Neuropathy with Liability to Pressure Palsy – PMP22 deletion analysis Requires patient informed consent. Contact lab prior to sending. Referrals only from consultant neurologist or clinical geneticist. Genetic consent form required.	GENE	A [9]	6 weeks	£425.00
Hereditary Spastic Paraplegia Comprehensive NGS Panel Requires patient informed consent.	GENE	A A [9]	5 weeks	£1,600.00
HFE gene (Haemochromatosis) – common variants C282Y + H63D	HMD	A [9]	3 days	£234.50
Hirschprung Disease NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
HLA Tissue Typing A	HLA	A [9]	10 days	£240.50
HLA Tissue Typing A+B	HLBA	A [9]	10 days	£380.00
HLA Tissue Typing A+B+C (Class I)	HABC	A [9]	10 days	£620.50
HLA Tissue Typing A/B/DRB1/3/4/5	HLAF	A [9]	10 days	£620.50
HLA Tissue Typing A/B/DRB1/3/4/5/DQB1	HLF	A [9]	10 days	£684.00
HLA Tissue Typing A/B/C/ DRB1/3/4/5/DQB1 (Class I & II)	HLFC	A [9]	10 days	£810.50
HLA Tissue Typing B	HLB	A [9]	10 days	£240.50
HLA Tissue Typing B*27 only	HLAB	A [9]	3 days	£223.00
HLA Tissue Typing B*51 (Behcet's Disease)	B51	A [9]	10 days	£240.50
HLA Tissue Typing B*57:01 high resolution	HL57	A [9]	10 days	£349.00

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TDL Genetics

TEST	CODE	SAMPLE REQS	TAT	PRICE
HLA Tissue Typing C	HLC	A [9]	10 days	£240.50
HLA Tissue Typing Coeliac Disease – DQ2/DQ8	Q2Q8	A [9]	10 days	£209.50
HLA Tissue Typing DRB1/3/4/5	DRB1	A [9]	10 days	£240.50
HLA Tissue Typing DRB1/3/4/5/DQB1 (Class II)	HLDQ	A [9]	10 days	£380.00
HLA Tissue Typing Narcolepsy – DQB1*06:02 Requires patient informed consent.	GENE	A [9]	3 weeks	£349.00
Huntington Disease – HD gene repeat analysis PCR Requires patient informed consent. Contact lab prior to sending. Referrals only from consultant neurologist or clinical geneticist. Genetic consent form required.	GENE	A A [9,11]	5 weeks	£350.00
Hyperinsulinism NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Hyperparathyroidism – CASR sequencing Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Identity Profile (DNA) – 15 STR markers	DNAF	A [9,11]	10 days	£399.00
IDH1/2 Screening Assay Requires patient informed consent.	GENE	A	48 hours	£723.00
IgVH variant analysis for CLL	IGMU	A	4 weeks	£444.00
Inherited bleeding and platelet disorders (R90) Clinical synopsis, factor levels, bleeding history, family history and informed consent required. Please contact the laboratory for the request and consent forms, or for further guidance.	R90U	A A	12 weeks	£1,138.50
Intellectual Disability NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Iron Overload Profile	IOP	A B [9]	3 days	£301.50
Joubert/Meckel-Gruber Syndrome NGS Panel Requires patient informed consent.	GENE	A [9]	6 weeks	£1,600.00
Kallmann Syndrome NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Kennedy Disease (Spinal Bulbar Muscular Atrophy) – AR repeat expansion Requires patient informed consent.	GENE	A [9]	5 weeks	£300.00
Kidney/Urinary Tract Comprehensive Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£1,100.00
Lactose Intolerance Gene	LACG	A	2 weeks	£165.00
Langer-Giedion Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	**CVS / AF /** A H [9]	5-15 days	£728.00
Langer-Giedion Syndrome – BOBs only	PBOB	**CVS / AF /** A [9]	5 days	£260.00
Leber's Hereditary Optic Neuropathy – m.3460G>A + m.11778G>A + m.14484T>C common variants Requires patient informed consent.	GENE	A [9]	6 weeks	£420.00

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TDL Genetics

TEST	CODE	SAMPLE REQS	TAT	PRICE
Leukaemia (Rapid Acute) DNA and RNA NGS Panel Requires patient informed consent.	ALRP	A (3mL minimum) or bone marrow aspirate sample	3 days	£717.00
Leukaemia Fusion Gene Screening Assay (Q30)	LMPX	A	24 hours	£602.50
Leukaemia/Lymphoma RNA Sequencing (Fusion Gene and SNV/Indel) Panel Requires patient informed consent.	PHFP	A	2 weeks	£937.50
Li-Fraumeni Syndrome (p53-related cancer predisposition) – TP53 sequencing + MLPA Requires patient informed consent.	GENE	A [9,11]	6 weeks	£735.00
Limb-Girdle Muscular Dystrophy (LGMD) NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Lissencephaly NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Long QT Syndrome/Brugada Syndrome NGS Panel Requires patient informed consent.	GENE	A A [9]	4-6 weeks	£1,100.00
Lung Disorders NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Lynch Syndrome (HNPCC) NGS Panel Requires patient informed consent.	GENE	A [9]	4 weeks	£850.00
Lysosomal Storage Disorders NGS Panel – full gene sequencing Requires patient informed consent.	LSDS	A A [9]	4-6 weeks	£937.50
Male Genetic Reproductive Profile	GRP	A H [9]	10-15 days	£936.50
Marfan Syndrome – FBN1 sequencing + deletions/duplications Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Marfan Syndrome and Thoracic Aortic Aneurysm and Dissection NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Maturity-Onset Diabetes of the Young (MODY) Diabetes NGS Panel Requires patient informed consent.	GENE	A [9]	12 weeks	£1,260.00
Meckel-Gruber/Joubert Syndrome NGS Panel Requires patient informed consent.	GENE	A [9]	6 weeks	£1,600.00
Medium-Chain Acyl-CoA Dehydrogenase Deficiency – ACADM sequencing Requires patient informed consent.	GENE	A [9]	5 weeks	£750.00
Melanoma Comprehensive Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£1,100.00
Microdeletion (common) Syndromes – BOBs only	PBOB	**CVS / AF /** A [9]	5 days	£260.00

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TDL Genetics

TEST	CODE	SAMPLE REQS	TAT	PRICE
Microphthalmia/Anophthalmia/ Coloboma NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Miller-Dieker Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	**CVS** / **AF** / A H [9]	5-15 days	£728.00
Miller-Dieker Syndrome – BOBs only	PBOB	**CVS** / **AF** / A [9]	5 days	£260.00
Mitochondrial Genome Sequencing Requires patient informed consent.	GENE	A [9]	6 weeks	£1,210.00
Motor Neurone Disease (Amylotrophic Lateral Sclerosis) NGS Panel Requires patient informed consent.	GENE	A A [9]	5 weeks	£1,600.00
MTHFR – common C677T + A1298C variants	MTHF	A [9]	5 days	£240.50
Mucopolysaccharidosis NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Multiple Endocrine Neoplasia Type 1 – full MEN1 sequencing Requires patient informed consent.	GENE	A [9,11]	6-7 weeks	£800.00
Multiple Endocrine Neoplasia Type 2 – RET gene hotspot sequencing Requires patient informed consent.	GENE	A [9,11]	6-7 weeks	£700.00
Myeloid Gene Panel Requires patient informed consent.	MVPS	A (3mL minimum) or bone marrow aspirate sample	2 weeks	£661.50
Myeloproliferative Neoplasm NGS Screening Panel Requires patient informed consent.	MPNS	A (3mL minimum) or bone marrow aspirate sample	1 week	£551.50
Myotonic Dystrophy Type 1 – DMPK repeat PCR Requires patient informed consent.	GENE	A [9]	5 weeks	£350.00
Myotonic Dystrophy Type 2 (PROMM) – ZNF9 repeat PCR Requires patient informed consent.	GENE	A [9]	6 weeks	£350.00
Narcolepsy (HLA DQB1*06:02) Requires patient informed consent.	GENE	A [9]	3 weeks	£349.00
Nephrotic Syndrome, Steroid-Resistant NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Nervous System/Brain Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£1,100.00
Neurofibromatosis Type 1 – NF1 + SPRED1 sequencing + deletions/duplications Requires patient informed consent. Contact lab prior to sending.	GENE	A A [9,11]	8 weeks	£1,230.00
Neuronal Ceroid Lipofuscinosis (Batten Disease) NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00

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TEST	CODE	SAMPLE REQS	TAT	PRICE
Non-Invasive Prenatal Testing (NIPT) – common aneuploidy screening from maternal blood	NIPT	**J / Special tube** [1]	2-4 days	£295.00
Noonan Syndrome and RASopathies NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Nystagmus, X-linked Infantile – FRMD7 gene sequencing Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Osteogenesis Imperfecta NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Ovarian Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£850.00
p53-related cancer predisposition (Li-Fraumeni Syndrome) – TP53 sequencing + MLPA Requires patient informed consent.	GENE	A [9,11]	6 weeks	£735.00
Pancreatic Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£1,100.00
Paraganglioma/Pheochromocytoma NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£1,100.00
Parkinson-Alzheimer-Dementia NGS Panel Requires patient informed consent.	GENE	A [9,11]	6 weeks	£1,600.00
Paternity Testing (postnatal and prenatal) – sample required from each person being tested (3 people)	PATT	A / **AF** / **CVS** [1,12] **Contact Genetics lab**	5 days	£787.50 (by exception includes VAT)
Pelizaeus-Merzbacher Disease – PLP1 sequencing + deletions/duplications Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Pendred Syndrome – SLC26A4 gene sequencing Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Periodic Fever/Autoinflammation NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Peutz-Jegher Syndrome – STK11 sequencing + deletions/duplications Requires patient informed consent.	GENE	A [9]	5 weeks	£750.00
Phelan-McDermid Syndrome – karyotype + FISH	KARY, FISH	**CVS** / **AF** / H [9]	12-17 days	£847.50
Pheochromocytoma/Paraganglioma NGS Panel Requires patient informed consent.	GENE	A A [9,11]	5 weeks	£1,100.00
POLG-Related Disorders – full POLG sequencing + deletions and duplications Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Polycystic Kidney NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Pontocerebellar Hypoplasia NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00

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TDL Genetics

TEST	CODE	SAMPLE REQS	TAT	PRICE
Postnatal SNP Array CGH	CGH	A H [9]	10 days	£822.50
Prader-Willi Syndrome (Primary Screen) – methylation test	PWAM	A [9]	10 days	£496.50
Prenatal Diagnosis (BOBs + Culture)	ABK or CBK	**AF** / **CVS** [9]	3-5 days, 15 days	£658.00
Prenatal SNP Array CGH	CGH	**Amniotic fluid**, **CVS** or **POC** [9]	10 days	£822.50
Pre-Travel Screen (DVT)	DVT1	A A B [9]	5 days	£286.50
Primary Ciliary Dyskinesia (PCD) NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Primary Hyperoxaluria NGS Panel Requires patient informed consent.	GENE	A	7 weeks	£1,600.00
Products of Conception – rapid BOBs aneuploidy diagnosis for all chromosomes (10 days) + culture (25 days)	PBK	**Placental Sample** [1,9]	10-25 days	£658.00
Products of Conception (BOBs + Culture)	PBK	**Placental Sample** [1,9]	10-25 days	£658.00
Products of Conception BOBs only – rapid aneuploidy diagnosis for all chromosomes	KBOB	**Placental Sample** or **Solid Tissue** [1,9]	10 days	£420.00
Prostate Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£850.00
QF-PCR rapid common aneuploidy screen	APC	**AF** / A [9]	2 days	£291.50
Recurrent Miscarriage Profile (female)	RMP	A A B C C C H [9,18]	10-15 days	£1,110.50
Renal Cysts and Diabetes (RCAD) – HNF-1β sequencing exons 1-9 and dosage analysis by MLPA Requires patient informed consent.	GENE	A [9]	8 weeks	£735.00
Renal/Urinary Tract Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£1,600.00
Retinoblastoma – RB1 sequencing + deletions/duplications Requires patient informed consent.	GENE	A A [9,11]	6 weeks	£750.00
Rett Syndrome (MECP2 gene only) – full sequencing + deletions/duplications Requires patient informed consent.	GENE	A [9,11]	6 weeks	£750.00
Rett/Angelman Syndromes NGS Panel Requires patient informed consent.	GENE	A A [9]	5 weeks	£1,600.00
Short-Chain Acyl-CoA Dehydrogenase Deficiency – ACADS sequencing Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Short Stature – SHOX variant screening + deletions/duplications Requires patient informed consent.	GENE	A [9]	8 weeks	£750.00

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TEST	CODE	SAMPLE REQS	TAT	PRICE
Silver-Russell Syndrome – methylation studies on 11p15 imprinting domains KvDMR + H19 Requires patient informed consent.	GENE	A [9]	7 weeks	£600.00
Skeletal Dysplasia NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,900.00
Smith-Lemli-Opitz Syndrome – DHCR7 sequencing Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Smith-Magenis Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	**CVS / AF /** A H [9]	5-15 days	£728.00
Smith-Magenis Syndrome – BoBs only	PBOB	**CVS / AF /** A [9]	5 days	£260.00
Sotos Syndrome (Cerebral Gigantism) – NSD1 sequencing + deletions/duplications Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Spastic Paraplegia NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Spinal Bulbar Muscular Atrophy (Kennedy Disease) – AR repeat analysis Requires patient informed consent.	GENE	A [9]	5 weeks	£300.00
Spinal Muscular Atrophy – SMN1 deletions/duplications	SMA	A [9]	10 days	£493.50
Spinocerebellar Ataxia – multiplex SCA1+2+3+6+7+8+10+12 +17 common repeat expansions Requires patient informed consent.	GENE	A [9]	5 weeks	£550.00
Spinocerebellar Ataxia NGS Panel	GENE	A A [9]	6 weeks	£1,600.00
SRY (Sex-determining Region Y)	SRY	A [9]	2 days	£203.50
Systemic Mastocystosis – C-Kit common variants (KIT D816V) Requires patient informed consent.	GENE	A [9]	4 weeks	£200.00
T cell Clonality Assay (TCR beta and TCR gamma)	TCRA	A or **FFPE**	2 weeks	£444.00
Tay Sachs Screen Requires patient informed consent. See also Carrier Screen (Ashkenazi Jewish/Pan-Ethnic).	GENE	A [9]	4 weeks	£600.00
Thrombophilia with a likely monogenic cause (R97) Clinical synopsis, levels of relevant proteins, thrombosis history, family history and informed consent required. Please contact the laboratory for the request and consent forms, or for further guidance.	R97U	A A	12 weeks	£1,138.50
Thrombotic Risk Profile	PROP	A A B C C C [18]	5 days	£760.00
Thyroid Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£1,100.00

Always provide clinical details and family history for genetic tests. Practice discounts do not apply to tests with the GENE code.
See page 25 for sample-taking and special handling instructions.

TDL Genetics

TEST	CODE	SAMPLE REQS	TAT	PRICE
Treacher Collins Syndrome and Related Disorders NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Tuberous Sclerosis (TSC1 + TSC2) Requires patient informed consent.	GENE	A A [9]	7 weeks	£1,200.00
Urinary Tract/Renal Cancer NGS Panel Requires patient informed consent.	GENE	A A [9,11]	4 weeks	£1,100.00
Usher Syndrome NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Very Long-Chain Acyl-CoA Dehydrogenase Deficiency – ACADVL sequencing Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Von Hippel-Lindau Syndrome – VHL sequencing + deletions/duplications Requires patient informed consent.	GENE	A [9]	6 weeks	£750.00
Whole Genome Sequencing (solo/duo/trio) For whole exome sequencing please contact the lab for further information.	GENE	A [9,11]	5-8 weeks	£3,500.00
Wolf-Hirschhorn Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	**CVS / AF /** A H [9]	5-15 days	£728.00
Wolf-Hirschhorn Syndrome – BOBs only	PBOB	**CVS / AF /** A [9]	5 days	£260.00
Y chromosome microdeletions – AZFa + AZFb + AZFc + SRY	YDEL	A [9]	5 days	£253.50
Zellweger Syndrome NGS Panel Requires patient informed consent.	GENE	A A [9]	6 weeks	£1,600.00
Ziwig Endotest® For information about this test and to order kits please contact endotest@tdlpathology.com. The quality of the saliva sample collection is important. Samples can be collected in the clinic or at home following instructions provided.	ENDT	Endotest saliva collection kit	25 days	£850.00
Zygosity Testing – comparative DNA profile	DNAC	A (From each twin and both parents)[9]	5 days	£665.50

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Carrier Screen (Ashkenazi Jewish)

This test is optimised for individuals and couples of Ashkenazi Jewish ancestry.**

Uses the same technology as the Pan-Ethnic Carrier Screen.

**Male patients will not be screened for X-linked conditions (e.g., FMR1, etc.).

Requires patient informed consent.

TAT: 4 weeks

GENE	£600.00

A [9]

Carrier Screen (Pan-Ethnic)

Targets 400+ Autosomal Recessive and X-linked Inherited Disorders**

** Male patients will not be screened for X-linked conditions (e.g., FMR1, etc.).

Requires patient informed consent.

TAT: 4 weeks

GENE	£600.00

A [9]

DVT/Pre-travel Screen

Full Blood Count (FBC)
Factor II Prothrombin – G20210A Variant
Factor V Leiden – G1691A Variant
Cardiolipin Antibodies (IgG+IgM)

TAT: 5 days

DVT1	£286.50

A A B [9]

Iron Overload Profile

Iron (TIBC included)
Ferritin
Transferrin Saturation
Haemochromatosis C282Y, H63D

TAT: 3 days

IOP	£301.50

A B [9]

Male Genetic Reproductive Profile

Chromosome Analysis (Blood)
Cystic Fibrosis (139 common variants) – reflex to Poly T when required
Y chromosome microdeletions – AZFa + AZFb + AZFc + SRY

TAT: 10-15 days

GRP	£936.50

A H [9]

Products of Conception (BOBs + Culture)

Rapid Aneuploidy Diagnosis for all Chromosomes by BOBs Analysis (10 days)

Chromosome Analysis (Karyotype) (25 days)

TAT: 10-25 days

PBK	£658.00

Placental Sample [1,9]

Recurrent Miscarriage Profile (female)

Full Blood Count (FBC)
Coagulation Profile
Antithrombin III
Factor V Leiden Common Variant
Factor II Prothrombin Common Variant
MTHFR Common Variants
Fibrinogen
Lupus Anticoagulant
Protein C
Free Protein S Ag
Anticardiolipin Abs
Chromosome Analysis

Please request Partner's Chromosome Analysis using a separate request form.

TAT: 10-15 days

RMP	£1,110.50

A A B C C C H [9,18]

Thrombotic Risk Profile

Full Blood Count (FBC)
Coagulation Profile 1
Antithrombin III
Factor V Leiden – G1691A Variant
Factor II Prothrombin – G20210A Variant
MTHFR – common C677T + A1298C variants
Lupus Anticoagulant
Protein C
Protein S Free Ag
Cardiolipin Antibodies (IgG+IgM)

TAT: 5 days

PROP	£760.00

A A B C C C [18]

Always provide clinical details and family history for genetic tests. Practice discounts do not apply to tests with the GENE code.
See page 25 for sample-taking and special handling instructions.

Leukaemia (Rapid Acute) DNA and RNA NGS Panel / Myeloproliferative Neoplasm NGS Screening Panel

This NGS assay allows for rapid generation of comprehensive profile of variants (both DNA and RNA) from a single NGS run. This assay can profile both DNA and RNA targets including DNA mutations and translocations detected from RNA targets and allows for simultaneous interrogation of 45 DNA target genes and 30 RNA fusion driver genes. The broad fusion panel enables sequencing of over 700 unique fusion transcripts.

The panel covers relevant targets for acute myeloid leukaemia, myelodyplastic syndromes and myeoproliferative neoplasms, including CML, CMML and JMML. Among the targets are Calreticulin (CALR), JAK2, MPL and NPM1, which were previously offered as individual tests.

Requires patient informed consent.

TAT: 3 days / 1 week

ALRP (DNA & RNA)	£717.00
MPNS (DNA)	£551.50

A (3mL minimum) or bone marrow aspirate sample

Leukaemia / Lymphoma RNA Sequencing (Fusion Gene and SNV/Indel) Panel

The Leukaemia / Lymphoma RNA Sequencing panel is an Anchored Multiplex PCR (AMP™)- based next-generation sequencing (NGS) panel to detect and identify fusions, point mutations and expression levels from ribonucleic acid (RNA) input. The panel encompasses targets in over 199 genes relating to lymphoid and myeloid malignancies. By using gene-specific primers to amplify into molecular barcodes ligated onto the cDNA fragment ends, both known and novel fusions can be identified.

Requires patient informed consent.

TAT: 2 weeks

PHFP	£937.50

A

Lysosomal Storage Disorders NGS Panel – full gene sequencing

This is a 55 gene custom NGS panel which can be used to detect both pathogenic SNP/ Indels and copy number variants (including whole exon insertions / deletions) which cause the various Lysosomal storage disorders.

All known lysosomal storage diseases are covered on this panel including:

Fabry disease, Gaucher disease, Pompe disease, metachromatic leukodystrophy, all the different mucopolysaccharidoses, fucosidosis, Krabbe disease, Tay-Sachs disease, Sandhoff disease, Danon disease, lysosomal acid lipase deficiency, Niemann-Pick disease types A, B and C, lipfuscinoses, prosaposin deficiency and Salla disease.

Requires patient informed consent.

TAT: 4-6 weeks

LSDS	£937.50

A A [9]

Myeloid Gene Panel

This is a 75 gene targeted NGS panel for acute myeloid leukaemia, myeloproliferative neoplasms, myelodysplastic syndromes, and also contains a number of targets which are useful for lymphoid malignancies (ALL and lymphoma). It uses Anchored Multiplex PCR (AMPTM) chemistry which enables deep strand-specific amplification of molecular barcoded DNA fragments for sequencing.

Requires patient informed consent.

TAT: 2 weeks

MVPS	£661.50

A (3mL minimum) or bone marrow aspirate sample

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

SNP Array CGH testing

Chromosome abnormalities can be associated with developmental delay, autism spectrum disorder, learning difficulties, dysmorphic features and other congenital abnormalities. Array CGH can detect smaller genetic changes than is possible by conventional karyotyping and can provide accurate information on the size and possible consequences of the gains (duplications) or losses (deletions) identified. Multiple studies have shown that Array CGH, when applied to appropriate patients, will detect up to three times more pathogenic chromosome imbalances than karyotyping due to its greater precision and sensitivity. SNP (Single Nucleotide Polymorphism) arrays enable low-level mosaicism visualisation, loss of heterozygosity (LOH) and UPD detection, copy number change confirmation, triploidy detection and parent-of-origin analysis.

Array CGH testing is now considered to be the front line test for patients presenting with developmental delay (motor or growth), autism spectrum disorder, moderate to severe learning difficulties, dysmorphic features, with or without congenital abnormalities. Consortiums in the USA and many EU countries have adopted Array CGH as the front line test in this patient cohort.

Array CGH is now more frequently used for prenatal studies as an adjunct or replacement for conventional cytogenetic studies, particularly where structural fetal abnormalities are seen at ultrasound scan but also at a patient's or doctor's request. The technique may also be utilised as a follow up test to characterise anomalies detected by a previous study (e.g. an apparently balanced de novo rearrangement or marker chromosome).

Further information is provided by the UNIQUE website at www.rarechromo.org

When to use SNP Array?

In postnatal cases, patients should present with one or more of the following:

- Mental retardation
- Developmental delay
- Autism/autism spectrum disorder
- Dysmorphic features
- Congenital malformations

In prenatal cases, patients may present with:

- Abnormalities or increased nuchal translucency on ultrasound scan which may be associated with a chromosome imbalance.

Approximately 10-20% of results identify extra or missing DNA which may or may not be relevant to the clinical phenotype, and will require further family studies to assist with interpretation.

What can SNP Array detect?

Deletions and duplications with greater sensitivity than conventional karyotyping and loss of heterozygosity (LOH).

What does SNP Array not detect?

- Balanced chromosome rearrangements such as translocations or inversions. The chromosome location of duplications (this would require additional FISH testing).
- Fragile X syndrome, genetic diseases caused by point mutations or multifactorial inheritance.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Postnatal SNP Array CGH	CGH	A H [9]	10 days	£822.50

Blood from both parents may also be provided in case of follow up studies.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Prenatal SNP Array CGH	CGH	**Amniotic fluid**, **CVS** or **POC** [9]	10 days	£822.50

EDTA and heparin blood from both parents should be provided at the time of prenatal sampling, if possible, in case of follow up studies.

Always provide clinical details and family history for genetic tests. Practice discounts do not apply to tests with the GENE code.
See page 25 for sample-taking and special handling instructions.

Pan-ethnic carrier screening

The Fulgent Beacon carrier panel is a comprehensive genetic screen for people of all ethnic backgrounds. The panel analyses more than 400 genes, in which mutations may cause over 440 different recessive disorders. Testing includes Cystic Fibrosis, Sickle Cell Disease, Thalassemia and Spinal Muscular Atrophy. These conditions vary in morbidity, mortality and treatment.

The Beacon carrier screen can also be filtered to report only on diseases common to the Jewish population – such as Bloom Syndrome, Canavan Disease, Gaucher Syndrome and Tay-Sachs Disease.

Indications for use

- Pre-pregnancy screening for couples that wish to check if they are silent carriers for a disease that would have serious implications for the future health of any children.
- For patients who are concerned about a family history of a particular disease, where common mutation detections are very high – such as Tay-Sachs Disease.

The report comes with a synopsis of any diseases for which a mutation was found, including prognosis, treatment and mode of inheritance. It includes a risk assessment and recommendations for further testing.

A full list of diseases covered by this test is available from the laboratory.

Male patients will not be screened for X-linked conditions. If an X-linked condition is suspected in a male patient please contact the laboratory or a genetics specialist about diagnostic testing for that particular condition.

Limitations

A normal result does not rule out the possibility that the patient carries a rare mutation not detectible by this particular assay. For this reason, this test is also not appropriate to use as a direct prenatal screen (both parents must be confirmed carriers for a particular disease before we can offer prenatal diagnosis). Screening is not designed to detect somatic mutations.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Carrier Screen (Ashkenazi Jewish) Requires patient informed consent.	GENE	A [9]	4 weeks	£600.00
Carrier Screen (Ashkenazi Jewish) – Partnered Report Requires patient informed consent. Please contact the lab for special requirements before sending.	GENE	A [9]	4 weeks	£750.00
Carrier Screen (Pan-Ethnic) Requires patient informed consent.	GENE	A [9]	4 weeks	£600.00
Carrier Screen (Pan-Ethnic) – Partnered Report Requires patient informed consent. Please contact the lab for special requirements before sending.	GENE	A [9]	4 weeks	£750.00

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Non-invasive prenatal testing

Non-invasive prenatal testing (NIPT)

Non-invasive prenatal testing (NIPT) screens for the presence of specific chromosome disorders in the developing fetus. The test analyses fragments of cell-free DNA in maternal plasma that have been released from both maternal and placental cells.

By analysing the proportions of cell-free DNA fragments derived from different chromosomes or chromosome regions, NIPT can screen for the presence or absence of specific chromosome disorders.

NIPT is more accurate than first trimester maternal serum screening and ultrasound in identifying pregnancies with or without these disorders.

TDL Genetics uses the NIPT assay VeriSeq NIPT Solution v2, which is manufactured by Illumina and is processed at our laboratory in London.

Targeted screening for specific common chromosome disorders

Our NIPT assay is designed to screen for:

- Trisomy 21 (Down syndrome), which is associated with moderate to severe intellectual disability, congenital heart defects and other malformations;
- Trisomy 18 (Edwards syndrome) and trisomy 13 (Patau syndrome), which are associated with severe brain and cardiac malformations. There is a high risk of stillbirth or death during infancy; and
- Sex chromosome aneuploidy (abnormalities in the number of X or Y chromosomes), which can be associated with malformations and infertility, Turner syndrome (45,X) and Klinefelter syndrome (47,XXY). Triple X syndrome and XYY syndrome can also be detected. This screen is optional (no additional cost).

In addition, NIPT can also assess fetal sex. This is optional (no additional cost).

NIPT does not screen for non-chromosome disorders, familial mutations, malformations, fetal growth or fetal viability.

Accuracy of NIPT

NIPT provides fewer false-positive and false-negative results than combined first trimester screening for trisomy 21, 18 and 13.

It is important to note that NIPT is a screening test and does not provide a definitive genetic diagnosis, as NIPT cannot differentiate potential chromosome differences between the placenta and fetus.

Always provide clinical details and family history for genetic tests. Practice discounts do not apply to tests with the GENE code.
See page 25 for sample-taking and special handling instructions.

A definitive genetic diagnosis of the fetus requires cytogenetic analysis of either amniotic fluid or chorionic villus sampling (CVS).

When to perform NIPT

NIPT should not be performed before a gestational age of 10 weeks. However, it is suitable at any time after that, preferably while there is sufficient time for further investigation or decision-making (should this be required). An ultrasound scan is required prior to NIPT to confirm dates and fetal viability, and to check for twins. Performing first trimester screening before NIPT may provide supplementary information regarding the status of the fetus.

Who is eligible for NIPT?

Eligible patients:

- Women who are at least ten weeks pregnant
- Women with singleton or twin pregnancies
- Women with IVF pregnancies and non-IVF pregnancies

NIPT is not suitable for patients with:

- Recent maternal blood transfusion (within the last 4 months)
- Maternal mosaicism
- Maternal prior organ transplant/stem cell transplant
- Maternal copy number variations
- Chromosomal copy number variations
- Fetoplacental mosaicism/confined placental mosaicism
- Maternal autoimmune disease excluding IVIg treatments
- Maternal neoplasms (benign and malignant)
- Pregnancies with fetal demise/vanishing twin

Patients with a twin pregnancy are not eligible for the sex chromosome aneuploidy component of the screen.

Reporting results

Results will be ready within 2–4 business days upon receipt of sample in the laboratory.

TDL first checks that there is sufficient cell-free fetal DNA in the maternal sample and quality data to provide an accurate assessment. A re-collection may be recommended if the sample is not suitable or an assessment may not be feasible.

The report then summarises the screening assessment for each disorder specified by the requesting doctor (see example below).

Example report

Chromosome	Result	Recommendation
Trisomy 21	**HIGH PROBABILITY**	Genetic counselling and additional testing
Trisomy 18	Low probability <1:10,000	Review result with patient
Trisomy 13	Low probability <1:10,000	Review result with patient
Sex chromosome aneuploidy	Not requested	––
Fetal sex	Male	Review result with patient

A high probability NIPT result should always be confirmed by amniocentesis or CVS before making any decision regarding subsequent management of the pregnancy.

Limitations of NIPT

The VeriSeq NIPT Solution v2 is not validated for use in pregnancies with more than two fetuses, fetal demise, mosaicism, partial chromosome aneuploidy, triploidy, translocations, maternal aneuploidy, transplant or malignancy. VeriSeq NIPT Solution v2 does not detect neural tube defects. Certain rare biological conditions may also affect the accuracy of the test.

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

For twin pregnancies, HIGH PROBABILITY test results apply to at least one fetus; male test results apply to one or both fetuses; female test results apply to both fetuses. Due to the limitations of the test, inaccurate results are possible.

A LOW PROBABILITY result does not guarantee that a fetus is unaffected by a chromosomal or genetic condition. Some non-aneuploid fetuses may have HIGH PROBABILITY results. In cases of HIGH PROBABILITY results and/or other clinical indications of a chromosomal condition, confirmatory testing is necessary for diagnosis.

If an assessment cannot be provided

On rare occasions, NIPT is unable to provide an assessment of the probability of specific chromosome disorders. This usually reflects the complex biology of genetics and pregnancy, and is not due to a failing in the laboratory.

If NIPT cannot provide a specific assessment after a repeat blood draw, it is not worth repeating the NIPT (unless advised by the laboratory). A decision about other tests (maternal serum screening, detailed ultrasound, amniocentesis or CVS) should be based on the doctor's assessment of all risk factors identified,and may require specialist consultation.

Further information

- TDL Genetics website: www.tdlpathology.com/tdlgenetics
- Borth H, et al. Analysis of cell-free DNA in a consecutive series of 13,607 routine cases for the detection of fetal chromosomal aneuploidies in a single center in Germany. Arch Gynecol Obstet. 2021 Jun;303(6):1407-1414.

SCAN ME

Find out more about NIPT on the TDL website:

www.tdlpathology.com/non-invasive-prenatal-testing/

TEST	CODE	SAMPLE REQS	TAT	PRICE
Non-Invasive Prenatal Testing (NIPT) – common aneuploidy screening from maternal blood	**NIPT**	**J / Special tube**[1]	2-4 days	£295.00

Always provide clinical details and family history for genetic tests. Practice discounts do not apply to tests with the GENE code.
See page 25 for sample-taking and special handling instructions.

In-vivo Tests

All *in-vivo* tests (except Glucose Challenge Test/Mini-GTT) require an appointment. Please email **phlebotomy@tdlpathology.com** or call **020 7307 7373** for details, information for patient preparation, and appointment times. Sample taking fees for Extended tests are charged at £90.00 per visit.

Extended Testing

- 50g liquid glucose is consumed for the glucose challenge test/Mini-GTT.
- 75g liquid glucose is consumed for all other glucose tests.
- Each sample tube must be labelled with time of collection.

Glucose tolerance tests

TEST	CODE	SAMPLE REQS	TAT	COLLECTION TIME (MINUTES POST-GLUCOSE)	PRICE
Glucose Challenge Test/Mini-GTT	RBGM	G	1 day	1 at 60 mins (50gm glucose)	£33.50
Glucose Tolerance Test (Extended Plus)	GTTX	7 x G, 7 x **RU**	1 day	1 each at 0, 30, 60, 90, 120, 150 and 180 mins.	£294.00
Glucose Tolerance Test (Extended)	GTTE	5 x G, 5 x **RU**	1 day	1 each at 0, 30, 60, 90 and 120 mins.	£262.50
Glucose Tolerance Test (Short)	GTTS	2 x G, 2 x **RU**	1 day	1 each at 0 and 120 mins.	£102.50
Glucose Tolerance Test/OGTT	GTT	3 x G, 3 x **RU**	1 day	1 each at 0, 60 and 120 mins (75gm glucose load)	£160.00
Glucose Tolerance with Growth Hormone	GTT + GHDF	3 x B [35], 3 x G, 3 x **RU**	1 day	1 each at 0, 60 and 120 mins.	£266.50
Glucose Tolerance with Insulin	GTTI	3 x B, 3 x G, 3 x **RU**	1 day	1 each at 0, 60 and 120 mins	£398.00

Extended tests

TEST	CODE	SAMPLE REQS	TAT	COLLECTION TIME (MINUTES POST-GLUCOSE)	PRICE
Lactose Tolerance Test	LTT	By appointment only	1 day	Contact 0207 307 7383 (Phlebotomy)	£152.50
Synacthen Stimulation Test	SYNA	By appointment only	1 day		£266.50

Antibiotic assays

TEST	CODE	SAMPLE REQS	TAT	PRICE
Amikacin Level (State dose)	AMIK	B [4]	1 day	£121.00
Gentamicin Assay	GENT	B [4]	1 day	£115.00
Metronidazole Level	METR	B [4]	10 days	£102.50
Teicoplanin Assay	TEIC	B	5 days	£121.00
Tobramycin Assay (Provide Clinical Details)	TOBR	H	3 days	£216.00
Vancomycin Hydrochloride	VANC	B	1 day	£96.00

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Therapeutic Drug Assays

There are three different collection times for Therapeutic Drug Monitoring:

- **Trough Level**: Blood should be collected just before the next dose. Trough Levels check that the appropriate drug concentration is being maintained.
- **Peak Levels**: Sample collection time is dependent on specific drug type and method of administration. Peak levels check that the drug level is not in the toxic range.
- **Suspected Toxicity**: Blood can be collected any time.

All collections should have the following noted on the request form:

- Dosage schedule including the amount and frequency and time of the last dose
- Time of specimen collection
- Clinical status of patient (e.g. routine, suspected toxicity)
- Name(s) of other drugs being taken by the patient

TEST	CODE	SAMPLE REQS	TAT	PRICE
Amitriptyline	AMTR	A [4]	5 days	£115.00
Anafranil (Clomipramine)	CHLO	A	7 days	£121.00
Carbamazepine (Tegretol)	CARB	B	1 day	£65.50
Clobazam	CLOB	A	5 days	£121.00
Clomipramine (Anafranil)	CHLO	A	7 days	£121.00
Clonazepam	CLON	A	7 days	£109.50
Diazepam (Valium)	DIAZ	A	7 days	£109.50
Digoxin	DIGO	B	1 day	£90.00
Epanutin (Phenytoin)	PHEN	B	1 day	£65.50
Erythropoietin	ERY	B	4 days	£92.00
Ethosuximide	ETHO	A	7 days	£77.00
FK506 (Tacrolimus/Prograf)	FK5	A [4]	1-2 days	£140.00
Flecainide (Tambocor)	FLEC	A	5 days	£128.50
Fluoxetine (Prozac)	PROZ	A [4]	5 days	£128.50
Gabapentin	GABA	B [4]	5 days	£102.50
Imipramine	IMIP	A [4]	4 days	£102.50
Lamotrigine	LAMO	B [4]	5 days	£121.00
Levetiracetam (Keppra)	LEVE	B [4]	3 days	£128.50
Lithium (take 12 hours after dose)	LITH	B	1 day	£51.50
Lorazepam	LORA	A [4]	10 days	£71.50
Methotrexate	METX	B	2 days	£146.00
Mycophenolic Acid (Cellcept)	MYCP	A	5 days	£146.00
Mysoline (Primidone)	PRIM	B [4]	3 days	£77.00

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Therapeutic Drug Assays

TEST	CODE	SAMPLE REQS	TAT	PRICE
Olanzapine	OLAN	A [4]	5 days	£128.50
Paracetamol	PARA	B	1 day	£121.00
Phenobarbitone	PHB	B	1 day	£65.50
Phenytoin (Epanutin)	PHEN	B	1 day	£65.50
Primidone (Mysoline)	PRIM	B [4]	3 days	£77.00
Propanalol	PRO	B [4]	7 days	£115.00
Risperidone	RISP	A [4]	7 days	£197.50
Sinequan (Doxepin)	DOXE	A or H	10 days	£121.00
Sirolimus	SIRO	A	3 days	£134.00
Streptomycin Levels	STRM	F	5 days	£172.00
Sulpiride	SULP	B [4]	4 days	£121.00
Tacrolimus/Prograf (FK506)	FK5	A [4]	1-2 days	£140.00
Tegretol (Carbamazepine)	CARB	B	1 day	£65.50
Temazepam	TEMA	B [4]	4 days	£134.00
Theophylline	THEO	B	1 day	£57.50
Topiramate (Topamax)	TOPI	B [4]	4 days	£115.00
Trimipramine	TRIM	A	5 days	£96.00
Valium (Diazepam)	DIAZ	A	7 days	£109.50
Valproic Acid (Epilim)	VALP	B	1 day	£57.50
Vigabatrin (Sabril)	VIGA	A	10 days	£115.00

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Allergy

For a list of individual allergens see page 147.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Allergy – Individual Allergens	ALLE	B	2 days	£42.00
Allergy – 5 x Single Individual Allergens	5AL	B	2 days	£157.50
Allergy – 10 x Single Individual Allergens	10AL	B	2 days	£304.50
Allergy Profile 1 (Food & Inhalants)	1A	B B	2 days	£578.50
Allergy Profile 2 (UK Aero Allergen)	2A	B B	2 days	£319.00
Allergy Profile 3 (Food)	3A	B B	2 days	£289.00
Allergy Profile 4 (Nuts & Seeds)	4A	B B	2 days	£409.00
Allergy Profile 5 (Children's Panel)	5A	B B	2 days	£289.00
Allergy Profile 6 (Shellfish)	6A	B B	2 days	£260.00
Allergy Profile 7 (Finfish)	7A	B B	2 days	£260.00
Allergy Profile 8 (Cereal – singles)	8A	B B	2 days	£152.00
Allergy Profile 9 (Antibiotics)	9A	B B	2 days	£119.00
Allergy Profile 10 (Insects)	10A	B B	2 days	£185.00
Allergy Profile 11 (Combined Shellfish/Finfish)	11A	B B	2 days	£208.50
Allergy Profile 12 (Milk & Milk Proteins)	12A	B B	2 days	£229.50
Allergy Profile 13 (Stone fruit/Rosaceae family)	13A	B B	2 days	£229.50
ALEX² Allergy Test (Self-collect)	ALEX	B (TDL Tiny)	3-4 days	£331.00
ALEX² Allergy Test (Venous)	ALEX	B (Serum)	3-4 days	£331.00
ISAC Panel (Self-collect)	ISAC	B (TDL Tiny)	3 days	£331.00
ISAC Panel (Venous)	ISAC	B	3 days	£331.00
Allergic Rhinitis/Asthma Profile	ALRN	B B	2 days	£309.00
Atopic Dermatitis/Eczema Profile (14 allergens)	ALEC	B B	2 days	£331.00
Gluten Sensitivity Profile	GLUT	A B B	10 days	£369.50
Histamine Releasing Urticaria Test	CURT	B	3 weeks	£171.00
Prealbumin	PALB	B	3 days	£90.00
Total IgE	IGE	B	1 day	£60.00
Tryptase	STRY	B	2 days	£157.50

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Component testing

Using ImmunoCAP Allergen Components can help refine the understanding of sensitisation, by assessing a person's sensitisation pattern at the molecular level. When used in conjunction with traditional extract-based IgE testing, these provide information at the individual component level.

For more information, please contact the Immunology Department on **020 7025 7917**.

SCAN ME

Find out more details about component testing:

www.tdlpathology.com/specialties/allergy/allergy-component-testing/

TEST	CODE	SAMPLE REQS	TAT	PRICE
Alpha Gal Components (related to red meat)	ZZ37	B	2 days	£70.50
Alternaria Components	ZZ1	B	2 days	£70.50
Apple Components	ZZ36	B	2 days	£103.50
Aspergillus Components	ZZ2	B	2 days	£203.00
Birch Components	ZZ3	B	2 days	£171.00
Brazil Components	ZZ4	B	2 days	£70.50
Cashew Components	ZZ35	B	2 days	£70.50
Cat Components	ZZ5	B	2 days	£103.50
Celery Components	ZZ6	B	2 days	£70.50
Cow's Milk Components	ZZ7	B	2 days	£203.00
Dog Components	ZZ8	B	2 days	£136.00
Egg Components	ZZ9	B	2 days	£203.00
Fish Components	ZZ10	B	2 days	£103.50
Glycan Determinants	ZZ27	B	2 days	£70.50
Hazelnut Components	ZZ11	B	2 days	£171.00
Horse Components	ZZ38	B	2 days	£40.50
House Dust Mite Components	ZZ12	B	2 days	£136.00
Kiwi Components	ZZ32	B	2 days	£66.50
Latex Components	ZZ13	B	2 days	£301.50
Lipid Transfer Proteins	ZZ23	B	2 days	£239.00
Lipocalins	ZZ28	B	2 days	£103.50
Olive Components	ZZ14	B	2 days	£70.50
Parvalbumins	ZZ29	B	2 days	£103.50
Peach Components	ZZ15	B	2 days	£136.00
Peanut Components	ZZ16	B	2 days	£203.00

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Allergy

TEST	CODE	SAMPLE REQS	TAT	PRICE
Polcalcins	ZZ25	B	2 days	£103.50
PR-10 Proteins	ZZ22	B	2 days	£274.00
Profilins	ZZ24	B	2 days	£270.50
Seed Storage Proteins	ZZ26	B	2 days	£268.00
Serum Albumins	ZZ30	B	2 days	£200.50
Sesame Components	ZZ39	B	2 days	£40.50
Shrimp Components	ZZ17	B	2 days	£70.50
Soybean Components	ZZ18	B	2 days	£136.00
Timothy Grass Components	ZZ19	B	2 days	£301.50
Tropomyosins	ZZ31	B	2 days	£103.50
Venom Components	ZZ33	B	2 days	£163.50
Wall Pellitory Components	ZZ20	B	2 days	£70.50
Walnut Components	ZZ34	B	2 days	£103.50
Wheat Components	ZZ21	B	2 days	£138.00

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Allergy Profile 1 (Food & Inhalants)

Total IgE with individual IgE allergens for:

Grass Mix, inc.: Cocksfoot, Meadow fescue, Meadow, Rye, Timothy

Weed Mix, inc.: Common ragweed, Giant ragweed, Western ragweed

Dust Mix, inc.: Blatella germanica, Dermatophagoides pteronyssinus, Dermatophagoides farinae, Hollister-Stier Labs

Mould Mix, inc.: A. alternata, Aspergillus fumigatus, Candida albicans, Cladosporium herbarum, Helminthosporium halodes, Penicillium notatum

Tree Mix, inc.: Box elder, Common silverbirch, Hazel, Oak, London plane, Maple, Sycamore

Single Allergens (19): Beef, Bermuda grass, Cat dander, Clam, Common silver birch, Cow's milk, Crab, Dog dander, Egg white, Egg yolk, Fish (Cod), Hazelnut, Horse dander, Latex, Nettle, Peanut, Shrimp/Prawn, Soya bean, Wheat

TAT: 2 days

1A	£578.50

BB

Allergy Profile 2 (UK Aero Allergen)

Total IgE with individual IgE allergens for:

Alternaria	Derma farinae
Aspergillus	Dog dander
Birch pollen	House dust mite
Cat dander	Horse dander
Cladosporium	Timothy grass
Common ragweed	

TAT: 2 days

2A	£319.00

BB

Allergy Profile 3 (Food)

Total IgE with individual IgE allergens for:

Codfish	Egg yolk	Sesame
Cow's milk	Kiwi	Soya
Egg white	Peanut	Wheat

TAT: 2 days

3A	£289.00

BB

Allergy Profile 4 (Nuts & Seeds)

Total IgE with individual IgE allergens for:

Almond	Peanut	Pumpkin seed
Brazil nut	Pecan	Sesame seed
Cashew	Pine nut	Sunflower seed
Hazelnut	Pistachio	Walnut
Macadamia nut	Poppy seed	

TAT: 2 days

4A	£409.00

BB

Allergy Profile 5 (Children's Panel)

Total IgE with individual IgE allergens for:

Cat dander	Egg white	Soya bean
Cod	Egg yolk	Timothy grass
Cow's milk	Hazelnut	Wheat flour
Dog dander	Peanut	
Dust mite	Silver birch	

TAT: 2 days

5A	£289.00

BB

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Allergy Profile 6 (Shellfish)

Total IgE with individual IgE allergens for:

Clam	Lobster	Scallop
Crab	Octopus	Squid
Crawfish/Crayfish	Prawns/Shrimp	

TAT: 2 days

6A	£260.00

BB

Allergy Profile 7 (Finfish)

Total IgE with individual IgE allergens for:

Codfish	Sardine/Pilchard	Swordfish
Mackerel	Salmon	Tuna
Plaice	Sole	

TAT: 2 days

7A	£260.00

BB

Allergy Profile 8 (Cereal – singles)

Total IgE with individual IgE allergens for:

Barley	Rye
Oat	Wheat

TAT: 2 days

8A	£152.00

BB

Allergy Profile 9 (Antibiotics)

Total IgE with individual IgE allergens for:

Amoxicilloyl	Pen G
Ampicilloyl	Pen V
Cefaclor	

TAT: 2 days

9A	£119.00

BB

Allergy Profile 10 (Insects)

Total IgE with individual IgE allergens for:

Common wasp – yellow jacket	Paper wasp
Bee	Yellow hornet
	White faced hornet

TAT: 2 days

10A	£185.00

BB

Allergy Profile 11 (Combined Shellfish/Finfish)

Total IgE with individual IgE allergens for:

Cod	Scallop
Prawn/Shrimp	Squid
Salmon	Tuna

TAT: 2 days

11A	£208.50

BB

Allergy Profile 12 (Milk & Milk Proteins)

Total IgE with individual IgE allergens for:

Alpha-lactalbumin – milk proteins	Goat's milk
Beta-lactoglobulin – milk proteins	Mare's milk
Casein – milk proteins	Sheep's milk
Cow's milk	Whey (cow and ewe)

TAT: 2 days

12A	£229.50

BB

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Allergy Profile 13 (Stone fruit/Rosaceae family)

Total IgE with individual IgE allergens for:

- Almond
- Apple
- Apricot
- Cherry
- Peach
- Pear
- Plum
- Raspberry
- Strawberry

TAT: 2 days

13A	£229.50

BB

ALEX² Allergy Test (Venous)

ALEX® Allergy Explorer rapidly tests for up to 300 allergens simultaneously and providing a comprehensive analysis, from a single sample (0.5µl). The panel of allergens includes pollen, mites, cat and dog fur, insect venoms, moulds and yeasts, food and latex, supplemented with total IgE.

TAT: 3-4 days

ALEX	£331.00

B (Serum)

ISAC Panel (Venous)

Simultaneous measurement from single sample (0.5µl) of specific antibodies to more than one hundred allergen components from more than 48 preselected allergen sources.

TAT: 3 days

ISAC	£331.00

B

Allergic Rhinitis/Asthma Profile

Total IgE with individual IgE allergens for:

- Cat dander
- Dog dander
- Common silver birch
- Timothy grass
- Dust mite - Dermatophagoides pteronyssinus
- Alternaria alternata
- Aspergillius fumigatus
- Cladosporium herbarum
- Mugwort
- London plane
- Peanut
- Egg white
- Cow's milk

TAT: 2 days

ALRN	£309.00

BB

Atopic Dermatitis/Eczema Profile (14 allergens)

TOTAL IGE with individual IgE allergens for:

- Cod fish
- Cow's milk
- Egg white
- Soyabean
- Peanut
- Hazelnut
- Shrimp
- Wheat
- Apple
- Dust mite - dermatophagoides pteronyssinus
- Cat dander
- Dog dander
- Timothy grass
- Common silver birch

TAT: 2 days

ALEC	£331.00

BB

Gluten Sensitivity Profile

- Gluten Single IgE Allergen
- Gliadin Antibodies (IgG) (deamidated)
- HLA Tissue Typing Coeliac Disease – DQ2/DQ8
- Immunoglobulin A
- Tissue Transglutaminase IgA (Coeliac)

TAT: 10 days

GLUT	£369.50

ABB

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See page 25 for sample-taking and special handling instructions.

Individual allergens

Allergens, when requested individually are priced as single tests, sample 1 x B (up to 5 allergens).

Protein allergens are manufactured by Thermofisher (Phadia) and are IgE specific.

GRASS POLLENS
Bahia grass g17
Barley g201
Bermuda grass g2
Brome grass g11
Canary grass g71
Cocksfoot g3
Common reed g7
Cultivated oat g14
Cultivated rye g12
Cultivated wheat g15
Johnson grass g10
Maize, Corn g202
Meadow fescue g4
Meadow foxtail g16
Meadow grass, Kentucky blue g8
Redtop, Bentgrass g9
Rye-grass g5
Sweet vernal grass g1
Timothy grass g6
Velvet grass g13
Wild rye grass g70

WEED POLLENS
Alfalfa w45
Camomile w206
Careless weed w82
Cocklebur w13
Common pigweed w14
Common ragweed w1
Dandelion w8
Dog fennel w46
False ragweed w4
Firebush (Kochia) w17
Giant ragweed w3
Goldenrod w12
Goosefoot, Lamb's quarters w10
Japanese Hop w22
Lupin w207
Marguerite, Ox-eye daisy w7
Mugwort w6
Nettle w20
Parietaria officinalis w19
Parietaria judaica w21
Plantain (English), Ribwort w9
Rape w203
Rough marshelder w16
Saltwort (prickly), Russian thistle w11
Scale, Lenscale w15
Sheep sorrel w18
Sunflower w204
Wall pellitory w19
Wall pellitory w21
Western ragweed w2
Wormwood w5
Yellow dock w23

TREE POLLENS
Acacia t19
American beech t5
Australian pine t73
Bald cypress t37
Bayberry t56
Box-elder t1
Cedar t212
Cedar elm t45
Chestnut t206
Common silver birch t3
Cottonwood t14
Cypress t222
Date t214
Elder t205
Elm t8
Eucalyptus, Gum-tree t18
European ash t25
Grey alder t2
Hackberry t44
Hazel t4
Horn beam t209
Horse chestnut t203
Italian/Mediterranean/Funeral cypress t23
Japanese cedar t17
Linden t208
Maple leaf sycamore, London plane t11
Melaleuca, Cajeput-tree t21
Mesquite t20
Mountain juniper t6
Mulberry t70
Oak t7
Oil Palm t223
Olive t9
Pecan, Hickory t22
Peppertree t217
Pine t213
Privet t210
Queen palm t72
Red cedar t57
Red mulberry t71
Scotch broom t55
Spruce t201
Sweet gum t211
Walnut t10
White ash t15
White hickory t41
White pine t16
Willow t12
Virginia live oak t218

MICROORGANISMS
Acremonium kiliense m202
Alternaria alternata m6
Aspergillus flavus m228
Aspergillus fumigatus m3
Aspergillus niger m207
Aspergillus terreus m36
Aureobasidium pullulans m12
Botrytis cinerea m7
Candida albicans m5
Chaetomium globosum m208
Cladosporium herbarum m2
Curvularia lunata m16
Epicoccum purpurascens m14
Setomelanomma rostrata (Helminthosporium halodes) m8
Malassezia spp. m227
Mucor racemosus m4

Penicillium chrysogenum (P. notatum) m1
Penicillium glabrum m209
Phoma betae m13
Rhizopus nigricans m11
Staphylococcal enterotoxin A m80
Staphylococcal enterotoxin B m81
Staphylococcal enterotoxin C m223
Staphylococcal enterotoxin TSST m226
Stemphylium herbarum (S. botryosum) m10
Tilletia tritici m201
Trichoderma viride m15
Trichophyton mentagrophytes var. interdigitale m211
Trichophyton rubrum m205
Ulocladium chartarum m204

EPIDERMALS AND ANIMAL PROTEINS
Budgerigar droppings e77
Budgerigar feathers e78
Camel dander u328
Canary bird droppings e200
Canary bird feathers e201
Cat dander e1
Chicken droppings e218
Chicken feathers e85
Chicken, serum proteins e219
Chinchilla epithelium e208
Cow dander e4
Dog dander e5
Duck feathers e86
Ferret epithelium e217
Finch feathers e214
Gerbil epithelium e209
Goat epithelium e80
Goose feathers e70
Guinea pig epithelium e6
Hamster epithelium e84
Horse dander e3
Mink epithelium e203
Mouse epithelium e71
Mouse epithelium, serum proteins and urine proteins e88
Mouse serum proteins e76
Mouse urine proteins e72
Parrot feathers e213
Pigeon feathers e215
Rabbit epithelium e82
Rabbit, serum proteins e206
Rabbit, urine proteins e211
Rat epithelium e73
Rat epithelium, serum proteins and urine proteins e87
Rat serum proteins e75
Rat urine proteins e74
Sheep epithelium e81
Swine epithelium e83
Turkey feathers e89

MITES
Acarus siro (Storage mite) d70
Blomia tropicalis (House dust mite) d201
Dermatophagoides farinae (House dust mite) d2
Dermatophagoides microceras (House dust mite) d3
Dermatophagoides pteronyssinus (House dust mite) d1
Euroglyphus maynei (House dust mite) d74
Glycyphagus domesticus (Storage mite) d73
Lepidoglyphus destructor (Storage mite) d71
Tyrophagus putrescentiae (Storage mite) d72

ALLERGEN COMPONENTS
See page 142 for Component Testing and Component Allergen Profiles

HOUSE DUST
Greer Labs., Inc. h1
Hollister-Stier Labs. h2

INSECTS
Berlin beetle i76
Blood worm i73
Cockroach, American i206
Cockroach, German i6
Fire ant i70
Grain weevil i202
Green nimitti i72
Horse fly i204
Mediterranean flour moth i203
Mosquito i71
Moth i8

VENOMS
Bumblebee i205
Common wasp (Yellow jacket i3
European Paper Wasp i77
European hornet i75
Honey bee i1
Paper wasp i4
White-faced hornet i2
Yellow hornet i5

DRUGS
Amoxicilloyl c6
Ampicilloyl c5
Cefaclor c7
Chlorhexidine c8
Gelatin bovine c74
Insulin human c73
Penicilloyl G c1
Penicilloyl V c2
Pholcodine c261
Morphine c260
Suxamethonium (succinylcholine) c202

OCCUPATIONAL
Bougainvillea k214
Cotton seed k83
Ethylene oxide k78
Ficus k81
Formaldehyde/Formalin k80
Hexahydrophtalic anhydrid k209
Isocyanate HDI (Hexamethylene diisocyanate) k77
Isocyanate MDI (Diphenylmethane diisocyanate) k76
Isocyanate TDI (Toluene diisocyanate) k75
Ispaghula k72
Latex k82
Methyltetrahydrophtalic anhydrid k211
Phthalic anhydride k79
Sunflower seed k84
Trimellitic anhydride, TMA k86

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PARASITES
Anisakis p4
Ascaris p1
Echinococcus p2

MISCELLANEOUS
Cotton, crude fibers o1
Mealworm o211
MUXF3 CCD, Bromelain o214
Seminal fluid o70
Streptavidin o212

FOODS – FRUITS & VEGETABLES
Apple f49
Apricot f237
Asparagus f261
Aubergine, eggplant f262
Avocado f96
Bamboo shoot f51
Banana f92
Beetroot f319
Blackberry f211
Blueberry f288
Broccoli f260
Brussel sprouts f217
Cabbage f216
Carrot f31
Cauliflower f291
Celery f85
Cherry f242
Cucumber f244
Date f289
Fennel, fresh f276
Fig f328
Garlic f47
Grape f259
Grapefruit f209
Kiwi f84
Lemon f208
Lettuce f215
Lime f306
Mandarin (tangerine, clementine, satsumas) f302
Mango f91
Melon f87
Olive (black, fresh) f342
Onion f48
Orange f33
Papaya f293
Passion fruit f294
Peach f95
Pear f94
Persimon (kaki fruit, sharon) f301
Pineapple f210
Plum f255
Potato f35
Pumpkin f225
Raspberry f343
Spinach f214
Strawberry f44
Sweet potato f54
Tomato f25
Watermelon f329

FOODS – SEED, LEGUMES & NUTS
Almond f20
Barley f6
Brazil nut f18
Buckwheat f11
Cashew nut f202
Chick pea f309
Coconut f36
Common millet f55
Fenugreek f305
Foxtail millet f56
Gluten f79
Green bean f315
Hazel nut f17
Lentil f235
Lima bean f182
Linseed f333
Lupin seed f335
Macadamia nut f345
Maize, Corn f8
Oat f7
Pea f12
Peanut f13
Pecan nut f201
Pine nut, pignoles f253
Pistachio f203
Poppy seed f224
Pumpkin seed f226
Quinoa f347
Rape seed f316
Red kidney bean f287
Rice f9
Rye f5
Sesame seed f10
Soybean f14
Spelt wheat f124
Sugar-beet seed f227
Sweet chestnut f299
Walnut f256
Wheat f4
White bean f15

FOODS – SPICES
Anise f271
Basil f269
Bay leaf f278
Black pepper f280
Caraway f265
Chilipepper f279
Clove f268
Coriander f317
Dill f277
Ginger f270
Green pepper (unripe seed) f263
Lovage f275
Mace f266
Marjoram f274
Mint f332
Mustard f89
Oregano f283
Paprika, Sweet pepper f218
Parsley f86
Tarragon f272
Thyme f273
Vanilla f234

FOODS – FISH, SHELLFISH & MOLLUSCS
Abalone f346
Anchovy f313
Blue mussel f37
Cat fish f369
Chub mackerel f50
Clam f207
Crab f23
Crayfish f320
Fish (cod) f3
Gulf flounder f147
Haddock f42
Hake f307
Halibut f303
Herring f205
Jack mackerel, Scad f60

Langust (spiny lobster) f304
Lobster f80
Mackerel f206
Megrim f311
Octopus f59
Oyster f290
Pacific squid f58
Plaice f254
Pollock f413
Red snapper f381
Salmon f41
Sardine (Pilchard) f308
Sardine, Japanese Pilchard f61
Scallop f338
Shrimp f24
Sole f337
Squid f258
Swordfish f312
Tilapia f414
Trout f204
Tuna f40
Walleye pike f415
Whitefish (Inconnu) f384

FOODS – EGG & FOWL
Chicken f83
Egg f245
Egg white f1
Egg yolk f75
Turkey meat f284

FOODS – MEAT
Beef f27
Mutton f88
Pork f26
Rabbit f213

FOODS – MILK
Casein f78
Cheese, cheddar type f81
Cheese, mold type f82
Cow's whey f236
Goat milk f300
Mare's milk f286
Milk f2
Milk, boiled f231
Sheep milk f325
Sheep whey f326

FOODS – ADDITIVES
Carob (E410) f296
Guar, guar gum (E412) f246
Gum arabic (E414) f297
Cochineal extract (Carmine red) (E120) f340

FOODS – MISCELLANEOUS
Cacao f93
Coffee f221
Malt f90
Mushroom (champignon) f212
Tea f222
Yeast f45

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Vitamins, Nutrition and Lifestyle

Vitamins

TEST	CODE	SAMPLE REQS	TAT	PRICE
1,25 Vitamin D *Serum sample stable for 3 days ambient.	D3	B *	5-8 days	£149.00
Beta Carotene	CARO	B	5 days	£139.00
Biotin	BIOS	B [7]	5 days	£154.00
Carotenes	CARO	B	5 days	£139.00
Vitamin A (Retinol)	VITA	B	5 days	£160.00
Vitamin B (Functional)	FUNC	A A or H	5 days	£148.00
Vitamin B Profile	VBP	A A B	5 days	£475.50
Vitamin B1 (Thiamine)	VIT1	A	5 days	£160.00
Vitamin B2 (Riboflavin)	VIB2	A	5 days	£160.00
Vitamin B3 (Nicotinamide)	VIB3	B	5 days	£160.00
Vitamin B5 (Pantothenic Acid)	VB5S	B	5 days	£139.00
Vitamin B6 (Pyridoxine)	VITB	A	5 days	£160.00
Vitamin B7 (Biotin)	BIOS	B [7]	5 days	£154.00
Vitamin B9 (Folic acid) – Red cell	RBCF	A	2 days	£52.50
Vitamin B9 (Folic acid) – Serum	FOLA	B	1 day	£52.50
Vitamin B12 (Active) (Self-collect)	B12	B (TDL Tiny)	1 day	£70.50
Vitamin B12 (Active) (Venous)	B12	B	1 day	£70.50
Vitamin B12 (Active)/Red Cell Folate	B12F	A B	2 days	£112.00
Vitamin C (Active) *Serum should be separated and frozen within 3 hours of venepuncture.	VITC	B (spun and frozen within 3 hours)*	5 days	£160.00
Vitamin D (1, 25 Dihydroxy) *Serum sample stable for 3 days ambient.	D3	B *	5-8 days	£149.00
Vitamin D (25-OH) (Self-collect)	VITD	B (TDL Tiny)	1 day	£83.50
Vitamin D (25-OH) (Venous)	VITD	B	1 day	£83.50
Vitamin E (Alpha Tocopherol)	VITE	B	5 days	£167.50
Vitamin K (Nutritional) * Sample should be light protected after collection, spun/ separated and frozen within 24 hours of collection.	VKN	Serum (SST or B) *	5 days	£91.00
Vitamin Profile 1	VITS	A B B [7]	5 days	£331.00
Vitamin Profile 2	VIT2	A A A [38] B B [7,13]	5 days	£496.50

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Nutrition and lifestyle

This provides valuable diagnostic information, which can be assimilated with other diagnostic markers in the assessment of nutritional status, and compares favourably to semi-quantitative functional assays.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Caeruloplasmin	CERU	B	1 day	£57.50
Copper (Serum)	COPP	B or K	5 days	£62.50
Essential Fatty Acid Profile (Red Cell)	EFAR	A [4]	10 days	£194.00
Folate (Red Cell)	RBCF	A	2 days	£52.50
Magnesium (Whole blood)	RCMG	A or H	4 days	£97.00
Mineral Screen	MINE	B K	5 days	£198.50
Mineral Screen (Whole blood)	RMIN	H H	5 days	£216.00
Mineral Screen and Industrial Heavy Metal Screen (Trace Metals)	TRAC	A B H K	7-10 days	£313.50
Omega 3/Omega 6 (Self-collect)	OMG3	A (TDL Tiny)	5 days	£130.50
Omega 3/Omega 6 (Venous)	OMG3	A [4]	5 days	£130.50
Selenium (Serum) (Self-collect)	SELE	B (TDL Tiny)	4 days	£77.00
Selenium (Serum) (Venous)	SELE	B	4 days	£77.00
Sports/Performance Profile	SPOR	A A A B B B B G K [4]	5 days	£552.50
Zinc (Serum)	ZINC	K	2 days	£51.50
Zinc (Urine)	URZN	CU	5 days	£55.00
Zinc (Whole Blood)	RBCZ	A or H	5 days	£54.00

Patients taking supplements may be advised to stop medication prior to testing.

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Mineral Screen

Calcium
Magnesium
Zinc
Iron
Copper
Chromium
Manganese

TAT: 5 days

MINE £198.50

B K

Mineral Screen (Whole blood)

Whole Blood Potassium
Whole Blood Magnesium
Whole Blood Calcium
Whole Blood Manganese
Whole Blood Zinc
Whole Blood Copper
Whole Blood Selenium
Whole Blood Chromium

TAT: 5 days

RMIN £216.00

H H

Mineral Screen and Industrial Heavy Metal Screen (Trace Metals)

Aluminium
Manganese
Iron
Calcium
Zinc
Magnesium
Copper
Cadmium
Mercury
Lead
Chromium

TAT: 7-10 days

TRAC £313.50

A B H K

Sports/Performance Profile

Full Blood Count (FBC)
ESR
Biochemistry Profile
HDL/LDL Cholesterol (Calculated)
Ferritin
C Reactive Protein (CRP)
Omega 3/Omega 6
Mineral Screen
Vitamin B9 (Folic acid) – Red cell
Vitamin B12 (Active)

TAT: 5 days

SPOR £552.50

A A A B B B B G K [4]

Vitamin B Profile

Vitamin B1 (Thiamine)
Vitamin B2 (Riboflavin)
Vitamin B3 (Nicotinamide)
Vitamin B6 (Pyridoxine)
Vitamin B9 (Folic acid) – Red cell
Vitamin B12 (Active)

TAT: 5 days

VBP £475.50

A A B

Vitamin Profile 1

Vitamin A (Retinol)
Beta Carotene
Vitamin B1 (Thiamine)
Vitamin B2 (Riboflavin)
Vitamin B6 (Pyridoxine)
Vitamin D (25-OH)
Vitamin E (Alpha Tocopherol)

TAT: 5 days

VITS £331.00

A B B [7]

Vitamin Profile 2

Vitamin A (Retinol)
Beta Carotene
Vitamin B1 (Thiamine)
Vitamin B2 (Riboflavin)
Vitamin B3 (Nicotinamide)
Vitamin B6 (Pyridoxine)
Vitamin B9 (Folic acid) – Red cell
Vitamin B12 (Active)
Vitamin D (25-OH)
Vitamin E (Alpha Tocopherol)

TAT: 5 days

VIT2 £496.50

A A A 38 B B [7,13]

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Essential Red Cell Fatty Acids Omega-3/Omega-6

Omega-3 is the name given to a family of polyunsaturated fatty acids, which the body needs but cannot manufacture itself. Omega-3 fats are used as the building blocks for fat derived hormones such as prostaglandins and leukotrienes.
The hormones with an Omega-3 base tend to reduce inflammation, while those that have an Omega-6 base increase inflammation. In the cell membrane the competition between these two essential fats has a direct bearing on the type of local hormone produced and the level of inflammation in the cell.

The Omega-6 to Omega-3 ratio in the cell membranes is key to the development of inflammatory disorders such as rheumatoid arthritis and heart disease. Diets low in oily fish and high in grains will promote inflammation and affect good health.

The ratio of Omega-6 to Omega-3 in the West is around 15 to 1, fifteen times more Omega-6 on the cell membrane promoting inflammation. Having twice as much Omega-6 is considered by most experts to be the optimal amount but a ratio of 2:1 is not easy to produce by diet alone. Many people are aware of the health benefits of Omega-3 but the supplementation to achieve optimal health is erratic. Being able to test for Essential Red Cell Fatty Acids (Omega-6/Omega-3 ratio) identifies a person's current status and is sufficiently specific to allow an accurate supplementation recommendation to be made.

Results show the Omega Ratio with a clear recommendation for the required level of Omega Supplementation (if any) to achieve optimal levels.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Omega 3/Omega 6 (Self-collect)	OMG3	A (TDL Tiny)	5 days	£130.50
Omega 3/Omega 6 (Venous)	OMG3	A [4]	5 days	£130.50

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Self-collection samples

The TDL Self-Collect range of testing has been gathering increased and important attention for healthcare services. Self-collection is being adopted across different target areas of healthcare: sexual health screening, wellness testing, genetic conditions, lifestyle review, pre-operative work ups, etc. Self-collection sampling allows patients to collect samples at home, and together with Royal Mail Tracked postal returns, facilitates safe and effective delivery of samples throughout the UK to the laboratory.

As part of the ongoing development of the TDL self-collection service, the sample collection kits ensure that TDL is aligned to regulatory requirement around ISO:13485 kit manufacture and UKCA marking across the UK. This requirement for UKCA marked kits also addresses the need for clinically approved stability and comparative performance. The interest being generated for this service ensures best attention, continued development, with regular review of the repertoire, and where possible more tests will be added to the available Self-Collection list.

The TDL Self-Collect capillary blood and sample kits include a helpful range of diagnostic and screening tests. These sample collection kits are not home test kits that provide an immediate result for the patient. Samples collected at home are all returned to the laboratory for testing, using Royal Mail Tracked 24 postal services. Results are returned directly to the healthcare organisation, doctor or healthcare professional – not to the patient. Self-Collect kits need to be UKCA marked (or dual marked with UKCA/CE) to represent the product claims that kits are being used for the collection of samples in a non-clinic setting.

The Self-Collect kit itself allows for combinations of sample types (urine, stool, swabs) – and the range of UKCA marked kits are listed on page 157. Instructions for sample collection are enclosed in each collection kit. The best results are obtained by patients who closely follow the instructions that are provided, and by collecting enough blood drops to sufficiently fill the microtainer tube(s) in their kit. A request form or specially provided tube label must be returned with the collected sample. It is exciting that the scope of this service, together with its performance and quality standards, will be revised, developed, and updated on a regular basis.

For more details relating to this service, please email **UKCAkits@tdlpathology.com**

SCAN ME

Find out more information about the TDL Self-Collect kits:

www.tdlpathology.com/self-collect-kits/

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Quality is key

- **Components**: verified for the specific intended use of the kit and linked to the accredited tests performed in the laboratory.
- **Instructions**: monitored for ease of use, version controlled, with regular feedback for ongoing improvement.
- **Quality**: Management of technical files, regulatory submissions and manufactured to the required ISO:13485 medical device manufacturing standards.
- **Supply**: Assembled within the UK. Both individual kit fulfilment services and larger size kit orders are available.
- **Security**: Test kits are security sealed.
- **Accompanying information**: Request forms cannot be inserted into the sealed kits. An accompanying envelope (TDL will provide) or other clearly visible method must be sent with each kit to clearly display the request form.
- **Laboratory testing**: Verified diagnostic tests performed in an ISO:15189 accredited clinical laboratory

We recommend that all healthcare organisations and healthcare professionals using our TDL Tiny™ and TDL Self-Collect kits are up to date with latest diagnostic testing guidelines and relevant updates, including but not limited to those published by:

- UKHSA Standards for Microbiology Investigations (SMI)
- British Association of Sexual Health and HIV Guidelines (BASHH)
- Royal College of Obstetrics and Gynaecology Guidelines (RCOG)
- NICE Evidence-based recommendations on faecal immunochemical tests (DG30)
- British Society of Haematology Evidence Based Guidance (BSH)
- Association of Clinical Biochemistry (ACB)

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

TDL's range of kits

Respiratory virus PCR

KIT CODE	KIT TYPE	SAMPLE TYPE
KT293	**Respiratory Virus Swab Collection Kit (2mL)**	Oropharyngeal and Nasal swab

Capillary blood

KIT CODE	KIT TYPE	SAMPLE TYPE
KT353	**Capillary Blood Collection Kit (SST)**	Capillary blood (SST)
KT354	**Capillary Blood Collection Kit (EDTA)**	Capillary blood (EDTA)
KT466	**Capillary Blood Collection Kit (Plain Red)**	Capillary blood (Plain)
KT384	**Capillary Blood Collection Kit (SST x2)**	Capillary blood (SST x2)
KT355	**Capillary Blood Collection Kit (SST and EDTA)**	Capillary blood (SST and EDTA)
KT423	**Capillary Blood Collection Kit (SST x2 and EDTA)**	Capillary blood (SST x2 and EDTA)
KT445	**Capillary Blood Collection Kit (Plain Red and SST)**	Capillary blood (Plain and SST)

Sexual health

KIT CODE	KIT TYPE	SAMPLE TYPE
KT356	**Sexual Health Collection Kit (Urine)**	Aptima urine
KT357	**Sexual Health Collection Kit (Vaginal)**	Aptima multisite swab
KT358	**Sexual Health Collection Kit (Blood and Vaginal)**	Capillary blood and Aptima multisite swab
KT359	**Sexual Health Collection Kit (Throat and Rectal)**	Aptima multisite swab x2
KT360	**Sexual Health Collection Kit (Blood and Urine)**	Capillary blood and Aptima urine
KT361	**Sexual Health Collection Kit (Blood, Urine, Throat and Rectal – MSM)**	Capillary blood, Aptima urine and Aptima multisite swab x2
KT424	**Sexual Health Collection Kit (Blood, Vaginal, Throat and Rectal)**	Capillary blood and Aptima multisite swab x3
KT404	**Sexual Health Collection Kit (Oral lesion)**	Oral swab
KT405	**Sexual Health Collection Kit (Genital lesion)**	Genital swab
KT421	**Sexual Health Collection Kit (Urine, Throat and Rectal – MSM)**	Aptima urine and multisite swab x2
KT425	**Sexual Health Collection Kit (Throat)**	Aptima multisite swab
KT426	**Sexual Health Collection Kit (Rectal)**	Aptima multisite swab
KT428	**Sexual Health Collection Kit (Vaginal, Throat and Rectal)**	Aptima multisite swab x3

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

KT429	**Sexual Health Collection Kit (Blood, Urine, Vaginal, Throat and Rectal)**	Capillary blood, Aptima urine and Aptima multisite swab x3

Microbial/Viral screening

KIT CODE	KIT TYPE	SAMPLE TYPE
KT364	**HPV Swab Collection Kit**	Qvintip swab
KT365	**MRSA Collection Kit (Nose and Groin)**	Purple liquid Amies swab x2
KT422	**MRSA Collection Kit (Nose, Groin and Axilla)**	Purple liquid Amies swab x3
KT366	**GBS Collection Kit (Vaginal and Rectal)**	Blue gel Amies swab x2
KT441	**Vaginitis Collection Kit (Vaginal – Culture and PCR)**	Aptima multisite swab and Blue gel Amies swab
KT385	**Urinalysis Collection Kit (Chemistry and Microscopy)**	Urine (Universal)
KT386	**Urinalysis Collection Kit (Chemistry, Microscopy and Culture)**	Urine (Universal and Boric)

Gastrointestinal

KIT CODE	KIT TYPE	SAMPLE TYPE
KT362	**QFIT Collection Kit**	QFIT sample collection device
KT363	**Faecal Collection Kit**	Stool/faecal container
KT430	**Faecal Collection Kit (QFIT and Stool x2)**	QFIT sample collection device and stool/faecal container x2

Please post self-collected samples on the same day they are taken, avoid posting over weekends and bank holidays.

TEST	CODE	SAMPLE REQS	TAT	KIT CODE	PRICE
7 STI Profile by PCR (7 tests from 1 Sample)	DL12	Aptima urine or multisite swab	2 days	KT356 or KT357	£140.00
ALEX² Allergy Test 300 allergen panel, from single sample (0.5µl), supplemented by Total IgE, which includes pollens, mites, cat and dog, fur, insect venoms, moulds, yeasts, food and latex.	ALEX	B (TDL Tiny)	3-4 days	KT353	£331.00
Amenorrhoea Profile (LH, FSH, PROL, TEST, TOES, SHBG, FAI) CHANGE LH, FSH, PROL, TEST, TOES and SHBG now also available individually from a F (TDL Tiny) sample. Avoid taking samples from any area an HRT cream is applied.	TAME	F (TDL Tiny)	1 day	KT466	£150.00
Amylase	AMY	B (TDL Tiny)	1 day	KT353	£51.50
Antimullerian Hormone (AMH)	AMH	B (TDL Tiny) or F (TDL Tiny)	1 day	KT353 or KT466	£130.50

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Self-collection samples

TEST	CODE	SAMPLE REQS	TAT	KIT CODE	PRICE
Apolipoprotein A1 NEW	APOA	B (TDL Tiny)	3 days	KT353	£76.00
Apolipoprotein B NEW	APOB	B (TDL Tiny)	3 days	KT353	£76.00
C Reactive Protein	CRP	B (TDL Tiny)	1 day	KT353	£54.00
C Reactive Protein (High Sensitivity)	HCRP	B (TDL Tiny)	1 day	KT353	£54.00
CA 125	C125	B (TDL Tiny)	1 day	KT353	£127.00
Calprotectin	CALP	**QFIT** sample collection device	5 days	KT362 or KT430	£97.00
Calprotectin/QFIT Profile (Combined)	QCAL	**QFIT** sample collection device	5 days	KT362 or KT430	£154.50
Carbohydrate Deficient Transferrin (CDT)	CDT	B (TDL Tiny)	3 days	KT353	£161.00
Chlamydia/Gonorrhoea – Rectal	RSCG	Aptima multisite swab	2 days	KT426	£80.00
Chlamydia/Gonorrhoea – Throat	TSCG	Aptima multisite swab	2 days	KT425	£80.00
Chlamydia/Gonorrhoea – Urine	CCG	Aptima urine	2 days	KT356	£80.00
Chlamydia/Gonorrhoea – Vaginal	SCG	Aptima multisite swab	2 days	KT357	£80.00
Cortisol	CORT	B (TDL Tiny)	1 day	KT353	£57.50
COVID-19 (SARS-CoV-2) RNA by PCR Contact Laboratory.	NCOV	Aptima multisite swab of nose/throat	1 day	KT293	£187.00
COVID-19 (SPIKE) Antibodies	SCOV	B (TDL Tiny)	1 day	KT353	£55.50
Creatinine (including eGFR)	CREA	B (TDL Tiny)	1 day	KT353	£30.50
DHEA Sulphate	DHEA	B (TDL Tiny) or F (TDL Tiny)	1 day	KT353 or KT466	£83.50
DL12 7 STI Profile by PCR (7 PCR tests from 1 Sample)	DL12	Aptima urine or multisite swab	2 days	KT356 or KT357	£140.00
Elastase	ELAS	Stool/faecal container	5 days	KT363	£112.00
Enteric Organism Rapid Detection	EORD	Stool/faecal container	2 days	KT363 or KT430	£224.00
Female Hormone Profile (LH, FSH, PROL, TOES) Avoid taking samples from any area an HRT cream is applied.	TFIP	F (TDL Tiny) and B (TDL Tiny)	1 day	KT445	£150.00
Ferritin	FERR	B (TDL Tiny)	1 day	KT353	£83.50
Free T3	FT3	B (TDL Tiny)	1 day	KT353	£55.00
Free T4	FT4	B (TDL Tiny)	1 day	KT353	£55.00
FSH	FSH	B (TDL Tiny) or F (TDL Tiny)	1 day	KT353 or KT466	£55.00
Full Blood Count* (Haemoglobin, White Cell Count, Red Cell Count, Platelets) NEW *Mix sample on collection.	TFBC	A (TDL Tiny)	1 day	KT354	£49.00
Gastrointestinal Pathogen Profile by PCR	EORD	Stool/faecal container	2 days	KT363 or KT430	£224.00

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Self-collection samples

TEST	CODE	SAMPLE REQS	TAT	KIT CODE	PRICE
Gliadin Antibodies (IgG) (deamidated)	AGAB	B (TDL Tiny)	2 days	KT353	£98.50
Group B Strep – Vaginal and Rectal	GBSX	Blue gel Amies swab x2	3-5 days	KT366	£55.00
H. pylori Antigen – Stool	HBAG	Stool/faecal container	3 days	KT363 or KT430	£81.00
HbA1c	GHB	A (TDL Tiny)	1 day	KT354	£55.00
HCG (Quantitative)	QHCG	B (TDL Tiny)	1 day	KT353	£61.00
Hepatitis B Immunity (IgG)	THBI	B (TDL Tiny)	1 day	KT353	£54.00
Hepatitis B Surface Antigen	THBA	B (TDL Tiny)	1 day	KT353	£52.50
Hepatitis C Antibodies	THCV	B (TDL Tiny)	1 day	KT353	£106.00
Hepatitis C Antigen (Early detection)	TCAG	B (TDL Tiny)	1 day	KT353	£65.50
Herpes Simplex (HSV) 1 & 2 – Genital lesion	HERS	Aptima multisite swab	5 days	KT405	£93.00
Herpes Simplex (HSV) 1 & 2 – Oral lesion	HERS	Aptima multisite swab	5 days	KT404	£93.00
HIV 1 & 2 Abs/p24Ag	THIV	B (TDL Tiny)	1 day	KT353	£57.50
HPV (19 high risk DNA subtypes, reported as types 16, 18 or Others)	HPVY	Qvintip vaginal swab	3 days	KT364	£73.50
HPV (Individually typed high risk DNA subtypes)	HPVZ	Qvintip vaginal swab	3 days	KT364	£115.00
ISAC Panel 112 allergen panel from single sample (0.5µl) which includes components from 48 preselected allergen sources	ISAC	B (TDL Tiny)	3 days	KT353	£331.00
Lipase	LIPA	B (TDL Tiny)	1 day	KT353	£57.50
Lipid Profile	LIPP	B (TDL Tiny)	1 day	KT353	£55.50
Lipoprotein (a)	LPOA	B (TDL Tiny)	1 day	KT353	£61.00
Liver Function Tests (Excluding AST)	TLFT	F (TDL Tiny) and B (TDL Tiny)	1 day	KT445	£55.50
Luteinising Hormone (LH)	LH	B (TDL Tiny) or F (TDL Tiny)	1 day	KT353 or KT466	£55.00
Lymphogranuloma Venerium (LGV) – Rectal * This test can be configured to be automatically reflexed as required.	LGVP	Aptima multisite swab	1-2 weeks	KT426	£119.00
Menopausal Profile (FSH, LH, TOES, TSH, FT4) Avoid taking samples from any area an HRT cream is applied.	TMEN	F (TDL Tiny) and B (TDL Tiny)	1 day	KT445	£150.00
MPOX (Virus) – Lesion	MPXV	Aptima multisite swab	2 days	KT405	£132.50
MRSA Culture	MRW2	Purple liquid Amies swab x2	2 days	KT365	£110.50
MRSA PCR	MRS2	Purple liquid Amies swab x2	1 day	KT365	£154.50

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Self-collection samples

TEST	CODE	SAMPLE REQS	TAT	KIT CODE	PRICE
Mycoplasma genitalium by PCR – Urine and Vaginal	MGEN	Aptima urine or multisite swab	2 days	KT356 or KT357	£93.00
Mycoplasma genitalium Resistance – Urine or Vaginal	MGR	Aptima urine or multisite swab	1-2 weeks	KT356 or KT357	£200.50
Oestradiol-17-Beta	TOES	F (TDL Tiny)	1 day	KT466	£55.00
Omega 3/Omega 6	OMG3	A (TDL Tiny)	5 days	KT354	£130.50
PEth (Phosphatidylethanol)	PETH	A (TDL Tiny)	5-7 days	KT354	£113.00
PLAC Test (Lp-PLA2)	PLA2	B (TDL Tiny)	2 days	KT353	£124.00
Progesterone Avoid taking samples from any area an HRT cream is applied.	PROG	B (TDL Tiny) or F (TDL Tiny)	1 day	KT353 or KT466	£55.00
Prolactin	PROL	B (TDL Tiny) or F (TDL Tiny)	1 day	KT353 or KT466	£55.00
Prostate Specific Antigen (Total)	PSPA	B (TDL Tiny)	1 day	KT353	£71.50
QFIT/Calprotectin Profile (Combined)	QCAL	**QFIT** sample collection device	5 days	KT362 or KT430	£154.50
Quantitative Faecal Immunochemical Test (QFIT)	QFIT	**QFIT** sample collection device	1 day	KT362 or KT430	£60.00
Respiratory PCR Panel (COVID-19, Flu A/B and RSV)	FLU4	Aptima multisite swab of nose/throat	2 days	KT293	£234.50
Selenium (Serum)	SELE	B (TDL Tiny)	4 days	KT353	£77.00
Sex Hormone Binding Globulin	SHBG	B (TDL Tiny) or F (TDL Tiny)	1 day	KT353 or KT466	£65.50
STI Profile by PCR (7 tests from 1 sample)	DL12	Aptima urine or multisite swab	2 days	KT356 or KT357	£140.00
STI Profile: MSM1 (Blood + Urine/ Throat/Rectal Swabs)	MSM1	B (TDL Tiny) / Aptima Urine / Aptima multisite swab x 2	2 days	KT361	£216.00
STI Profile: MSM2 (Blood + Urine/ Throat/Rectal Swabs)	MSM2	B (TDL Tiny) / Aptima urine / Aptima multisite swab x 2	3 days	KT361	£445.00
Syphilis IgG/IgM	TSYP	B (TDL Tiny)	1 day	KT353	£65.50
Testosterone Avoid taking samples from any area an HRT cream is applied.	TEST	B (TDL Tiny) or F (TDL Tiny)	1 day	KT353 or KT466	£55.00
Testosterone (Free) Avoid taking samples from any area an HRT cream is applied.	FTES	B (TDL Tiny) or F (TDL Tiny)	3 days	KT353 or KT466	£113.00
Thyroid Abs (Thyroglobulin + Thyroid Peroxidase Abs)	THAB	B (TDL Tiny)	2 days	KT353	£92.00
Thyroid Profile 1 (FT4/TSH)	TF	B (TDL Tiny)	1 day	KT353	£77.00
Thyroid Profile 3 (FT3/FT4/TSH)	TF3	B (TDL Tiny)	1 day	KT353	£109.50
Tissue Transglutaminase IgA (Coeliac)	TAA	B (TDL Tiny)	2 days	KT353	£66.50

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Self-collection samples

TEST	CODE	SAMPLE REQS	TAT	KIT CODE	PRICE
Trichomonas vaginalis (TV) – Urine or Vaginal	TVPC	Aptima urine or multisite swab	2 days	KT356 or KT357	£93.00
Triple Swab Female STI Profile (Vaginal/Throat/Rectal Swabs)	3SWA	Aptima multisite swab x 3 (label by site)	2 days	KT428	£165.50
TSH	TSH	B (TDL Tiny)	1 day	KT353	£55.00
Urea	UREA	B (TDL Tiny)	1 day	KT353	£33.50
Urea/Creatinine/eGFR	TCU	B (TDL Tiny)	1 day	KT353	£44.50
Urine Chemistry and Microscopy	UMIC	Urine (Universal). Mid stream.	1-2 days	KT385	£52.50
Urine Chemistry, Microscopy and Culture	UCEM	Urine (Universal & Boric). Mid stream.	1-2 days	KT386	£68.50
Vaginitis/BV Profile using Culture & PCR Swab	STD8	Aptima multisite swab and Blue gel Amies swab	3-5 days	KT441	£150.00
Viral Respiratory RNA Screen by PCR	VPR	Aptima multisite swab of nose/throat	2 days	KT293	£328.00
Vitamin B12 (Active)	B12	B (TDL Tiny)	1 day	KT353	£70.50
Vitamin D (25-OH)	VITD	B (TDL Tiny)	1 day	KT353	£83.50

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Screening for Drugs of Abuse/Alcohol

TEST	CODE	SAMPLE REQS	TAT	PRICE
Alcohol Profile	AP	A B B G	5-7 days	£200.50
Alcohol Profile 2	ALCP	A A B B G RU	5-7 days	£271.00
Amphetamines – Blood	AMPB	B B	5 days	£91.00
Cannabinoids (Urine) Screen	CANN	RU	1 day	£55.00
Cocaine (Urine) Screen	UCOC	RU	1 day	£31.50
Drugs of Abuse from Blood without Chain of Custody	DOAP	B	5 days	£162.50
Drugs of Abuse Profile – Random Urine Sample/No Chain of Custody	DOA	RU	2 days (5 days with LC-MS/MS confirmation)	£82.50
Drugs of Abuse Profile – Random Urine Sample/No Chain of Custody Plus Alcohol	DOA3	RU	2 days (5 days with LC-MS/MS confirmation)	£109.50
Drugs of Abuse Profile – With Chain of Custody* *Appointment required at 76 Wimpole Street and Photo ID to be shown.	DOAL	RU/CoC Collection Containers [1,2]	2 days (5 days with LC-MS/MS confirmation)	£130.50
Drugs of Abuse Profile – Without Chain of Custody	DOAN	RU [2]	2 days (5 days with LC-MS/MS confirmation)	£106.00
Ketamine Screen	KETA	RU	7-10 days	£154.00
LSD	LSD	RU	5 days	£120.00
Opiate Screen (Urine)	UOPI	RU	2 days	£60.00
PEth (Phosphatidylethanol) (Self-collect)	PETH	A (TDL Tiny)	5-7 days	£113.00
PEth (Phosphatidylethanol) (Venous)	PETH	A	5-7 days	£113.00
Urine EtG (Ethyl glucuronide)	ETG	RU	1 week	£113.00

Alcohol Profile

Liver Function Tests (LFT)
Alcohol Level
PEth (Phosphatidylethanol)
Carbohydrate Deficient Transferrin (CDT)
Mean Cell Volume (MCV)

TAT: 5-7 days

AP £200.50

A B B G

Alcohol Profile 2

Liver Function Tests (LFT)
Alcohol Level
PEth (Phosphatidylethanol)
Carbohydrate Deficient Transferrin (CDT)
Mean Cell Volume (MCV)
Urine Ethyl Gluconaride (EtG)

TAT: 5-7 days

ALCP £271.00

A A B B G RU

Drugs of Abuse from Blood without Chain of Custody

Amphetamines
Barbiturates
Tricyclic Antidepressants
Benzodiazepine
Cannabinoids
Opiates
Cocaine

TAT: 5 days

DOAP £162.50

B

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Screening for Drugs of Abuse/Alcohol

Drugs of Abuse Profile – Random Urine Sample/ No Chain of Custody

Amphetamines
Barbiturates
Benzodiazepine
Cannabinoids
Cocaine
Codeine – opiate
Dihydrocodeine – opiate
MDMA
Methadone
Morphine – opiate

TAT: 2 days (5 days with LC-MS/MS confirmation)

DOA	£82.50

RU

Drugs of Abuse Profile – Random Urine Sample/No Chain of Custody Plus Alcohol

Alcohol
Amphetamines
Barbiturates
Benzodiazepine
Cannabinoids
Cocaine
Codeine – opiate
Dihydrocodeine – opiate
MDMA
Methadone
Morphine – opiate

TAT: 2 days (5 days with LC-MS/MS confirmation)

DOA3	£109.50

RU

Drugs of Abuse Profile – With Chain of Custody*

Alcohol
Amphetamines
Barbiturates
Benzodiazepine
Cannabinoids
Cocaine
Codeine – opiate
Dihydrocodeine – opiate
Ketamine
LSD
MDMA
Methadone
Methaqualone
Morphine – opiate
Phencyclidine
Propoxyphene

*Appointment required at 76 Wimpole Street] and Photo ID to be shown

TAT: 2 days (5 days with LC-MS/MS confirmation)

DOAL	£130.50

RU/CoC Collection Containers [1,2]

Drugs of Abuse Profile – Without Chain of Custody

Alcohol
Amphetamines
Barbiturates
Benzodiazepine
Cannabinoids
Cocaine
Codeine – opiate
Dihydrocodeine – opiate
Ketamine
LSD
MDMA
Methadone
Methaqualone
Morphine – opiate
Phencyclidine
Propoxyphene

TAT: 2 days (5 days with LC-MS/MS confirmation)

DOAN	£106.00

RU [2]

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Occupational Health

Trace metals in blood

TEST	CODE	SAMPLE REQS	TAT	PRICE
Aluminium (Blood)	ALUM	K	7 days	£80.00
Arsenic (Blood)	ARS	A or H	5 days	£83.50
Cadmium (Blood)	CADM	A or H	5 days	£83.50
Chromium (Blood)	CHRO	A / Trace metal / H	5 days	£73.50
Copper (Serum)	COPP	B or K	5 days	£62.50
Lead (Blood)	LEAD	A	5 days	£62.50
Magnesium (Serum)	MG	B	1 day	£43.50
Manganese (Serum)	MANG	B	5 days	£80.00
Mercury (Blood)	MERC	A or H	5 days	£62.50
Nickel (Serum)	NICK	B	5 days	£78.50
Silver (Blood)	SILV	B	5 days	£108.50
Trace Metal (Blood) Profile	TRAC	A B H K	7-10 days	£313.50
Zinc (Serum)	ZINC	K	2 days	£51.50

Trace metals in blood

TEST	CODE	SAMPLE REQS	TAT	PRICE
Aluminium (Urine)	ALUU	**RU**	1-2 weeks	£107.00
Arsenic (Urine)	ARSE	**RU** [30]	5 days	£83.50
Cadmium (Urine)	URCD	**RU** [30]	5 days	£83.50
Chromium (Urine)	URCR	**RU** [30]	4 weeks	£73.50
Cobalt (Urine)	COBA	**RU** [30]	5 days	£83.50
Copper (Urine)	URCU	**CU**	5 days	£62.50
Lead (Urine)	URPB	**RU**	5 days	£62.50
Magnesium (Urine)	URMG	**PU**	1 day	£48.00
Mercury (Urine)	URHG	**RU** [1]	5 days	£83.50
Nickel (Urine)	NICU	**RU**	4 weeks	£83.50
Silver (Urine)	USIL	**RU**	5 days	£108.50
Zinc (Urine)	URZN	**CU**	5 days	£55.00

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Tests for specific exposure

TEST	CODE	SAMPLE REQS	TAT	PRICE
2-Butanone GC	BUTA	**RU**	7 days	£154.00
Acetone – Blood	ACTB	A or H	2 weeks	£116.50
Acetone – Urine	ACTU	**RU**	5 days	£116.50
Alcohol Profile	AP	A B B G	5-7 days	£200.50
Alcohol Profile 2	ALCP	A A B B G **RU**	5-7 days	£271.00
Benzene	BENZ	**J** [1,6]	3 days	£135.00
Beta 2 Microglobulin (Serum)	B2MG	B	2 days	£97.00
Beta 2 Microglobulin (Urine)	UB2M	**RU**	3 days	£109.50
Bromide	BROM	B	3 days	£148.00
Cholinesterase (Serum/Pseudo)	CHPS	B	1 day	£56.50
Doxepin Level (Sinequan)	DOXE	A or H	10 days	£121.00
MBOCA in Urine	MBOC	**RU**	10 days	£120.00
Molybdenum (Serum)	MOLY	B	5 days	£78.50
Thallium (Blood)	THAL	A / H	1 week	£78.50
Thallium (Urine)	URTH	**RU**	1 week	£78.50
Toluene (Blood)	TOL	**J** (Contact Referrals)	10 days	£149.00
Toluene (Urine)	UTOL	**RU**	10 days	£192.00
Trichloracetic Acid (Urine)	UTCA	**RU**	5 days	£145.00
Xanthine – Blood	XANB	A	2 weeks	£109.50
Xylene – Urine	UXYL	**RU** [30]	2 weeks	£108.50

Alcohol Profile

Liver Function Tests (LFT)
Alcohol Level
PEth (Phosphatidylethanol)
Carbohydrate Deficient Transferrin (CDT)
Mean Cell Volume (MCV)

TAT: 5-7 days

AP £200.50

A B B G

Alcohol Profile 2

Liver Function Tests (LFT)
Alcohol Level
PEth (Phosphatidylethanol)
Carbohydrate Deficient Transferrin (CDT)
Mean Cell Volume (MCV)
Urine Ethyl Gluconaride (EtG)

TAT: 5-7 days

ALCP £271.00

A A B B G **RU**

Trace Metal (Blood) Profile

Aluminium
Iron
Zinc
Copper
Mercury
Chromium
Manganese
Calcium
Magnesium
Cadmium
Lead

TAT: 7-10 days

TRAC £313.50

A B H K

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Cervical Screening

The cervical cytology laboratory provides a rapid service for liquid based cervical samples.

Human papilloma virus (HPV), Chlamydia and Gonorrhoea testing is carried out routinely from ThinPrep vials and can be requested at the time the cervical sample is taken.

Laboratory hours

The laboratory department is open 8.00am to 6.00pm. Out-of-hours results are available on 020 7307 7373.

Urgent samples

It is helpful if requests for urgent samples can be discussed with the Senior Management Team prior to sending. Please contact the laboratory on cytology.reporting@tdlpathology.com in the first instance.

Use of service/Information required

Request forms must include 3 patient identifiers (this can be patient's full name, date of birth, hospital number or reference number). Samples will not be processed without a request form. TDL Request Forms do not include the information required for NHS requests for cervical cytology and should not be used for NHS requests. For further information on NHS requests please contact hsl.csl.queries@nhs.net.

Appropriate clinical information providing previous treatment/histological diagnosis is essential to ensure correct management recommendations can be given in the patient report. Tick boxes are provided to assist you.

The specimen container must be clearly labelled with patient details. Forms and samples which are mismatched will result in the sample being returned to the sender for correction.

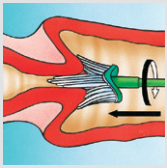
Sample takers are requested to check the expiry date of the vial prior to taking the sample. The laboratory are unable to process samples if the expiry date has passed.

Clinical advice

The Consultant Cytopathologists and the Consultant Biomedical Scientist work together to provide clinical and technical advice, including recommendations for follow-up, HPV testing and management of complex cases. TDL will provide recommendation for patient management, but not undertake to provide a direct referral. No result will be entered onto the NHS CSP database and will therefore not be part of an individual's NHS screening record. Failsafe and management of the patient and their follow up, including referral for colposcopy where indicated, would need to be arranged by their referring clinician. To contact the department directly, please call 020 7307 7387 or email cytology.reporting@tdlpathology.com.

RECORD…

…the patient's 3 identifiers to include date of birth on the vial, and the patient information and medical history on the cytology requisition form. TDL Request Forms do not include the information required for NHS requests and should not be used for NHS requests.



OBTAIN…

…an adequate sample from the cervix using a Cervex Brush (broom-like device). Insert the central bristles of the brush into the endocervical canal deep enough to allow the shorter bristles to fully contact the ectocervix. Push gently and rotate the brush in a clockwise direction five times.

RINSE…

…the Cervex Brush immediately into the PreservCyt Solution vial by pushing it into the bottom of the vial 10 times, forcing the bristles apart. As a final step, swirl the brush vigorously to further release material. Visually inspect the Cervex Brush to ensure that no material remains attached. Discard the brush.

Do not leave the head of the Cervex Brush in the vial. Check the vial is in date before use.

TIGHTEN…

…the cap so that the black torque line on the cap passes the black torque line on the vial. Do not over-tighten.

PLACE…

…the vial and request form in a specimen bag for transportation to TDL.

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

ThinPrep® PAP Test Cervex Brush Protocol

Prepare all equipment before starting the procedure

- Note expiry date on sample collection vial. Do not use expired vials. Samples received in an expired vial will not be processed.
- Ensure the entire plastic seal is removed from the lid of the vial and discarded.
- Complete patient details on both the request form and the vial. Specimens may be returned or discarded if details are missing from the vial.
- Remove the lid from the vial before taking the sample.
- Use of lubricant is not recommended.

DO

- If excessive mucus is present, this should be gently removed before sampling.
- Use either the Cervex Brush (broom-like device) on its own or in combination with an endocervical brush.
- The Cervex Brush should be rotated 5 times in a clockwise direction. The Plastic spatula should be rotated through 360 degrees and the endocervical brush rotated through one quarter to one half turn.
- Immediately rinse the collected material into the vial.
- Replace the lid and tighten so that the black torque line on the cap passes the black torque line on the vial to avoid leakage.
- Keep the unlabelled portion of the sample vial free of labels so that the contents can be seen.
- If barcoded labels are used these must be applied horizontally around the vial.
- Samples should be sent to the laboratory without delay.

DON'T

- DO NOT leave the head of the Cervex Brush in the vial.
- DO NOT routinely clean the cervix or take a cervical swab before taking a cervical sample.
- An endocervical brush should never be used in isolation.
- DO NOT under any circumstances use a wooden spatula.
- DO NOT leave the collection device sitting in the vial whilst dealing with the patient.
- DO NOT over-tighten the lid on the vial.
- DO NOT place multiple labels on the outside of the vial.
- DO NOT apply barcoded labels vertically on the vial.
- DO NOT use expired vials.
- DO NOT delay the sending of vials to the laboratory. The sample needs to be processed within 6 weeks of collection.
- DO NOT use excessive lubricant – please avoid if possible.

Gynaecological Samples

The Cytology department processes cervical samples directly referred from all sectors of practice – Health screening, Occupational health, GP's, Consultants, Colposcopy units, Clinics, Hospitals and other Laboratories.

Liquid Based Cytology (LBC) is processed using the Hologic ThinPrep system.

Information for sample takers is available by contacting the department. Important: the head of the cervical broom must NOT be left in the vial. The use of lubricant interferes with LBC sampling and may result in an inadequate sample. Use of lubricant is NOT recommended as it can affect the processing quality of the sample. Supplies of ThinPrep vials are available by contacting the Laboratory Service Centre on 020 7307 7373.

STI Screening from Hologic Thin Prep Vial

Tests are priced individually. Please request tests individually. Requests for additional test can be made by contacting the laboratory by telephone on **020 7307 7373** or by email to **addons@tdlpathology.com**.

Infection by PCR (single tests)

TEST	CODE	SAMPLE REQS	TAT	PRICE
Chlamydia	TPCR	**TPV**	2 days	£93.00
Chlamydia/Gonorrhoea	TCG	**TPV**	2 days	£93.00
Chlamydia/Gonorrhoea/Trichomonas	TCGT	**TPV**	2 days	£120.00
Gardnerella vaginalis	GVPC	**TPV**	2 days	£93.00
Gonorrhoea	TGON	**TPV**	2 days	£93.00
Herpes Simplex I/II	HERD	**TPV**	5 days	£93.00
Mycoplasma genitalium	MGEN	**TPV**	2 days	£93.00
Mycoplasma genitalium/Ureaplasma	MUPC	**TPV**	2 days	£120.00
Trichomonas vaginalis	TVPC	**TPV**	2 days	£93.00
Ureaplasma urealyticum	UGEN	**TPV**	2 days	£93.00

Multiple tests from a single sample

TEST	CODE	SAMPLE REQS	TAT	PRICE
7 STI Profile by PCR (7 tests from 1 Sample) Chlamydia trachomatis, Neisseria gonorrhoea, Mycoplasma genitalium, Ureaplasma species, Trichomonas vaginalis, Gardnerella vaginalis, Herpes Simplex I/II	PP12	**TPV**	2 days	£296.50

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Human papillomavirus (HPV)

Human papillomavirus (HPV) is a common virus which infects the skin and may be transmitted through sexual contact. There are over 200 types of HPV which are split into two groups depending on whether they are linked to an increased risk of cervical cancer. These are described as high risk HPV subtypes or low risk HPV subtypes.

Infection with a high-risk HPV (hrHPV) has been established as a necessary cause of cervical cancer. This has led in recent years to the inclusion of hrHPV testing as an adjunct to cervical cytology in organised cervical screening programmes.

Compared to cervical cytology, hrHPV testing has been shown to reduce the risk of developing cervical cancer through increased sensitivity. The high negative predictive value of hrHPV testing and lower false negative rate provides assurance to woman and clinicians that the risk of developing cervical cancers between screening tests, is rare.

What does this change mean?

It means that HPV testing is the **FIRST LINE TEST**. It will be carried out as a single test, with a single result reported as Detected/Not Detected.

- If HR-HPV is NEGATIVE (Not Detected) – this means no further testing is needed for your patient and they may return to Routine Recall.
- If HR-HPV is POSITIVE (Detected) – this means that **CYTOLOGY** will be processed from the same ThinPrep Vial. **A further specimen is not required**. Patient recall (management) will be determined by the individual screening history and current test results.

All TDL requests for HPV are processed as follows:

- If HPV is requested as a single test and the result is Negative/Not Detected, cervical cytology (PAPT) would only be processed if specifically requested. Should HPV and PAPT be undertaken, there would be a charge for both the HPV and the PAPT.
- If the HPV result is HR-HPV Detected, cervical cytology (PAPT) will be processed, even if the PAPT has not been requested. The PAPT will not be charged.

Understanding the significance of HPV testing

The benefit of a negative HPV result is its negative predictive value (NPP). A negative HPV result indicates that a patient is a very low risk of developing cervical disease. However neither HPV testing not negative cervical cytology are able to reduce the risk to zero.The negative predictive value of both DNA and mRNA testing is the same.

Cervical Screening

Requests for Cervical Cytology as a single test are no longer processed without testing for HPV. In these circumstances, the HPV test will be charged in addition to the Cervical Cytology. Requests for HPV as the PRIMARY TEST will reflex to Cervical Cytology if HR-HPV is Detected/Positive at no additional charge.

Requests for HPV Primary Screening as a single test

TEST	CODE	SAMPLE REQS	TAT	PRICE
HPV (A group of 14 HR mRNA types)	**HPVH**	**TPV**	3 days	£73.50

If HR-HPV is DETECTED/POSITIVE, cervical cytology (PAPT) will be processed **without charge**. The PAPT will be processed from the same vial.

Requests for HP20 as a single test

TEST	CODE	SAMPLE REQS	TAT	PRICE
HPV (28 individually typed LR & HR DNA subtypes)	**HP20**	**TPV**	3 days	£115.00

HPV low and high risk DNA subtypes will be reported individually (9 low and 19 high risk). If High Risk DNA subtypes are positive then Cervical Cytology (PAPT) using the same vial will be processed **without charge**.

Requests for HPVT as a single test

TEST	CODE	SAMPLE REQS	TAT	PRICE
HPV (28 individually typed low risk (LR) & high risk (HR) DNA subtypes and reflexed mRNA for types 16, 18, 31, 33 and 45)	**HPVT**	**TPV**	5 days	£146.00

If one or more of DNA types 16, 18, 31, 33, 45 are DETECTED/POSITIVE, reflex testing for expression of E6/E7 oncogenes will be undertaken and Cervical Cytology (PAPT) will be processed **without charge**. The PAPT will be processed from the same vial.

Requests for Cervical Cytology (PAPT)

TEST	CODE	SAMPLE REQS	TAT	PRICE
Cervical Cytology	**PAPT**	**TPV**	6 days (combined report)	£88.00
Cervical Cytology + HPVH	**PAPT + HPVH**	**TPV**	6 days (combined report)	£161.50

If PAPT is requested as a single test, HR-HPV will be undertaken additionally, and a combined report will be issued. **PAPT and HPVH will be charged as two separate tests**.

Requests for Cervical Cytology (PAPT) with selected HPV (HPVH or HP20 or HPVT)

TEST	CODE	SAMPLE REQS	TAT	PRICE
Cervical Cytology + HPVH	**PAPT + HPVH**	**TPV**	6 days (combined report)	£161.50
Cervical Cytology + HP20	**PAPT + HP20**	**TPV**	6 days (combined report)	£203.00
Cervical Cytology + HPVT	**PAPT + HPVT**	**TPV**	6 days (combined report)	£234.00

Where HPV result is reported with Cervical Cytology, a recommendation for patient management will be given, based on the combined findings.

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Self-collection HPV samples

TDL Self-Collection HPV Test

Human Papillomavirus (HPV) is the primary cause of nearly all cervical cancer. In most cases, the HPV virus is harmless and causes no symptoms. Most women who acquire HPV are able to clear the infection through their own immune systems. Persistent presence of high-risk types of HPV can cause cervical lesions which over time may develop into cancer if untreated. Testing for HPV determines the presence, or absence, of HPV and will determine whether the HPV type present is high risk for CIN and cervical cancer.

The Self-Collection HPV Test provides women with the option to self-collect a vaginal specimen that is then sent to the laboratory for testing. There is well documented high level of concordance between the HPV DNA results from self-collected and clinician-collected specimens.

The Self-Collection HPV Test is validated, using a CE marked sample collection device for vaginal cell collection. This sample is then sent to the laboratory for processing for 19 high risk HPV DNA subtypes. A negative result means that these high-risk subtypes HPV were not detected and the patient is at extremely low risk of developing high-grade cervical disease/CIN2+ before their next routine visit.

A positive HPV result might indicate an increased risk of developing CIN/cervical cancer, and the report from the laboratory will provide a clear recommendation for follow-up/colposcopy.

The value of HPV DNA testing in cervical cancer screening and disease detection has been proven over and over again. Self-collection of specimens for HPV testing is not intended to replace existing patient management pathways but allows for:

- Those who wish to test following a change of sexual partner
- Option for identifying individual high risk DNA subtypes
- Personal preference to self-collect vaginal samples
- An acceptable option for women who avoid having regular cervical smears
- Self-collection for HPV increases acceptability and coverage rate of cervical cancer prevention

Results will always be sent to the requesting clinician, clinic or healthcare organisation.

HPVY
Self-Collected HPV DNA incorporating a collective of high risk subtypes.

HPVZ
Self-Collected HPV DNA with **individual** reporting of all High Risk subtypes (16, 18, 31, 33, 45, 35, 39, 51, 52, 56, 58, 59, 66, 68, 26, 53, 69, 73, 82).

For more information, or to order Self-Collection HPV Test Packs, please contact Annette Wilkinson on **020 7307 7373** or **annette.wilkinson@tdlpathology.com**

TEST	CODE	SAMPLE REQS	TAT	PRICE
HPV (19 high risk DNA subtypes, reported as types 16, 18 or Others) (Self-collect)	HPVY	Qvintip vaginal swab	3 days	£73.50
HPV (Individually typed high risk DNA subtypes) (Self-collect)	HPVZ	Qvintip vaginal swab	3 days	£115.00

Turnaround times are from the point at which samples are entered into TDL's laboratory information management systems, and provide a guide for the issue of results. Some tests are run in laboratory departments that do not operate at weekends.

Non-Gynae Cytology

Non-Gynaecological Cytology

Cerebrospinal fluid (CSF)

Ideally CSF should be submitted fresh or as an air dried cytospin slide, unstained and in a plastic transport slide box. A minimum of 3mls should be submitted either in fresh form or spun on multiple slides for cytopathologists' review and opinion. Please contact TDL Cytology for advice if required on 020 7307 7323 /7373.

Fluids

All available material should be submitted in a sterile container without fixative as quickly as possible. If any delay is anticipated, the material should be submitted in cytolyt fixative.

Urines

To prevent cell degeneration it is advisable to collect urine samples in a sample pot containing preservative (available from TDL Supplies). Use of preservative will ensure the cellular material is preserved up to 48 hours.

Ideally 10 mls (excluding preservative) from a freshly fully voided urine (when the bladder is emptied) mid-morning sample should be submitted for cytological assessment. If microbiology or chemistry investigations are also required, **please submit separate urine samples** and mark the vials accordingly. A mid-stream urine sample is NOT recommended for cytological assessment is it could lead to a low cellular yield. If a delay of greater than 24 hours in reaching the laboratory is anticipated samples should be refrigerated at 4°C.

Sputum

Sputum should be collected on at least three occasions if underlying lung carcinoma is suspected. A single sputum is sufficient for microbiological assessment. Sputum should be sent to the laboratory immediately following production, or stored in a universal container containing cytolyt cell fixative if there is a likely delay. Please note that this is only acceptable if sputum is only for Cytology. Microbiology cannot be performed on fixed material. Early morning sputum is ideal, but contamination with food, toothpaste and tobacco should be avoided.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Fluid Cytology	CATF	**Fluid** [4]	3 days	£162.50
Urine Cytology (Urine cytology containers available from TDL Supplies)	URCY	**Urine** (30mls)[21]	2 days	£151.50

Please ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of sample collection.
See page 25 for sample-taking and special handling instructions.

Histopathology

TDL's Histopathology service supports a full range of pathology sub-specialities.

To prevent tissue degeneration, it is advisable to collect histopathology samples in sample pot(s) containing preservative, usually formalin, to at least ten times the volume of the tissue sample (available from TDL Supplies). Use of preservative will ensure that the tissue architecture and microscopic appearances of specimens are preserved.

Patient demographics, together with clinical and sample details need to be provided with the specimens. Testicular investigations for reproductive investigations are best submitted fixed in Bouins solution. Requests for products of conception require the patient's signed consent/instruction regarding sensitive disposal when the histopathology is complete. Please contact **020 7307 7380** or **020 7307 7373** for information or any query relating to histopathology.

All specimens are initially stained with H&E. However special stains and immunohistochemistry (IHC) may be recommended if additional information is needed to provide a more detailed analysis. The choice of stain depends on the findings on initial assessment, the clinical context and the preference of the pathologist within their specialist expertise. IHC may be added when routine or regular histological testing is not sufficient to form a diagnosis. There are additional charges for special stains and immunohistochemistry, as below.

Special stains	
1SS	£26.50
2SS	£52.50
3SS	£79.00
4SS	£105.00
5SS	£131.50

Immunohistochemistry	
1IMM	£59.00
2IMM	£118.00
3IMM	£176.50
4IMM	£235.50
5IMM	£294.00

CATEGORY	CODE	TISSUE SAMPLE	PRICE
Breast	**HIS1**	Breast Capsule	£204.00
Breast	**HIS4**	Breast Reduction (Bilateral)	£456.50
Breast	**HIS3**	Breast Reduction (Unilateral)	£355.00
Breast	**HIS2**	Breast Tissue	£304.50
Breast	**HIS2**	Cavity Shavings	£304.50
Breast	**HIS1**	Core Biopsy (1 Specimen)	£204.00
Breast	**HIS2**	Core Biopsy (2 Specimens)	£304.50
Breast	**HIS3**	Core Biopsy (3 Specimens)	£355.00
Breast	**HIS4**	Core Biopsy (4 Specimens)	£456.50
Breast	**HIS3**	Lumpectomy	£355.00
Breast	**HIS5**	Mastecomy (simple) / Wide Local Excision (WLE)	£595.50
Breast	**HIS5+HIS4**	Mastectomy + Axillary Clearance	£1,051.50
Breast	**HIS4**	Microdochectomy	£456.50
Breast	**HIS2**	Nipple	£304.50
Breast	**HIS5**	Sentinal Nodes	£595.50
Cardiac	**HIS3**	Aorta	£355.00
Cardiac	**HIS2**	Cardiac Biopsy	£304.50
Cardiac	**HIS3**	Cardiac Tumour Excision	£355.00

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Histopathology

CATEGORY	CODE	TISSUE SAMPLE	PRICE
Cardiac	HIS2	Heart Valves	£304.50
Cardiac	HIS2	Mediastinal Tissue	£304.50
Cardiac	HIS2	Pericardium	£304.50
Cardiac	HIS2	Temporal Artery Biopsy	£304.50
Endocrine	HIS5	Adrenal	£595.50
Endocrine	HIS4	Parathyroid	£456.50
Endocrine	HIS4	Thyroid (Lobe)	£456.50
Endocrine	HIS5	Thyroid (Total)	£595.50
ENT – Biopsy	HIS2	Bronchial Biopsy	£304.50
ENT – Biopsy	HIS1	Cholesteatoma	£204.00
ENT – Biopsy	HIS1	Dental Cyst	£204.00
ENT – Biopsy	HIS1	Ear Canal Biopsy	£204.00
ENT – Biopsy	HIS1	Ear Polyp	£204.00
ENT – Biopsy	HIS1	Epiglottis	£204.00
ENT – Biopsy	HIS1	Gingivial Tissue	£204.00
ENT – Biopsy	HIS1	Laryngeal Biopsy	£204.00
ENT – Biopsy	HIS2	Laryngeal Nodule (Bilateral)	£304.50
ENT – Biopsy	HIS1	Laryngeal Nodule (Unilateral)	£204.00
ENT – Biopsy	HIS2	Mandible Biopsy	£304.50
ENT – Biopsy	HIS2	Maxillary Mucosa	£304.50
ENT – Biopsy	HIS2	Mucocele	£304.50
ENT – Biopsy	HIS1	Nasal Biopsy	£204.00
ENT – Biopsy	HIS1	Nasal Polyps	£204.00
ENT – Biopsy	HIS1	Oral Biopsy	£204.00
ENT – Biopsy	HIS1	Palatal Biopsy	£204.00
ENT – Biopsy	HIS1	Pharyngeal Biopsy	£204.00
ENT – Biopsy	HIS2	Pleural Biopsy	£304.50
ENT – Biopsy	HIS1	Thyroid Biopsy	£204.00
ENT – Biopsy	HIS1	Tongue Biopsy	£204.00
ENT – Biopsy	HIS1	Tonsil (1 Specimen)	£204.00
ENT – Biopsy	HIS2	Tonsil Biopsy	£304.50
ENT – Biopsy	HIS2	Tonsils (2 Specimens)	£304.50
ENT – Biopsy	HIS2	Uvelectomy	£304.50
ENT – Biopsy	HIS1	Vocal Chords	£204.00
ENT – Resections	HIS5+HIS2	Glossectomy	£886.50
ENT – Resections	HIS5	Laryngectomy	£595.50

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See page 25 for sample-taking and special handling instructions.

Histopathology

CATEGORY	CODE	TISSUE SAMPLE	PRICE
ENT – Resections	**HIS5+HIS2**	Maxillectomy	£886.50
ENT – Resections	**HIS5+HIS2**	Neck Dissection	£886.50
ENT – Resections	**HIS5+HIS5**	Neck Dissection (Bilateral)	£1,177.50
ENT – Resections	**HIS4**	Parotidectomy	£456.50
ENT – Resections	**HIS4**	Partial Thyroidectomy	£456.50
ENT – Resections	**HIS5+HIS5**	Pharyngectomy	£1,177.50
ENT – Resections	**HIS5+HIS2**	Rhinectomy	£886.50
ENT – Resections	**HIS3**	Submandibular Gland – Excision	£355.00
ENT – Resections	**HIS2**	Thyroglossal Cyst	£304.50
GI Endoscopic – Biopsy	**HIS1**	Bile Duct Biopsy	£204.00
GI Endoscopic – Biopsy	**HIS1**	Colonic Polyp	£204.00
GI Endoscopic – Biopsy	**HIS1**	Endoscopic Biopsy (1 specimen)	£204.00
GI Endoscopic – Biopsy	**2H1**	Endoscopic Biopsy (2 specimens)	£304.50
GI Endoscopic – Biopsy	**3H1**	Endoscopic Biopsy (3 specimens)	£355.00
GI Endoscopic – Biopsy	**4H1**	Endoscopic Biopsy (4 specimens)	£456.50
GI Endoscopic – Biopsy	**5H1**	Endoscopic Biopsy (5 specimens)	£456.50
GI Endoscopic – Biopsy	**6H1**	Endoscopic Biopsy (6 specimens)	£456.50
GI Endoscopic – Biopsy	**7H1**	Endoscopic Biopsy (7 specimens)	£456.50
GI Endoscopic – Biopsy	**8H1**	Endoscopic Biopsy (8 specimens)	£456.50
GI Endoscopic – Biopsy	**9H1**	Endoscopic Biopsy (9 specimens)	£595.50
GI Endoscopic – Biopsy	**10H1**	Endoscopic Biopsy (10-15 specimens)	£595.50
GI Endoscopic – Biopsy	**HIS5**	Liver Biopsy – Medical	£595.50
GI Endoscopic – Biopsy	**HIS3**	Liver Biopsy – Tumour	£355.00
GI Endoscopic – Biopsy	**HIS3**	Omental Biopsy	£355.00
GI Endoscopic – Biopsy	**HIS1**	Pancreatic Biopsy	£204.00
GI Endoscopic – Biopsy	**HIS1**	Perianal Biopsy	£204.00
GI-Resection – Small	**HIS2**	Anal Fistula	£304.50
GI-Resection – Small	**HIS2**	Appendix	£304.50
GI-Resection – Small	**HIS3**	Endo Mucosal Resection (EMR / ESD)	£355.00
GI-Resection – Small	**HIS2**	Gallbladder	£304.50
GI-Resection – Small	**HIS2**	Haemorrhoidectomy	£304.50
GI-Resection – Small	**HIS2**	Hernia Sac	£304.50
GI-Resection – Small	**HIS3**	Meckel's Diverticulum	£355.00
GI-Resection – Small	**HIS2**	Mesentery	£304.50
GI-Resection – Small	**HIS2**	Perianal Biopsy / Warts	£304.50
GI-Resection – Small	**HIS2**	Pilonidal Sinus	£304.50

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Histopathology

CATEGORY	CODE	TISSUE SAMPLE	PRICE
GI-Resection – Small	HIS2	Polypectomy	£304.50
GI-Resection – Small	HIS2	Umbilical Lesion	£304.50
GI Resection – Large	HIS5	Biliary Resection	£595.50
GI Resection – Large	HIS5+HIS2	Colon	£886.50
GI Resection – Large	HIS5	Distal Pancreatectomy	£595.50
GI Resection – Large	HIS5+HIS2	Gastrectomy	£886.50
GI Resection – Large	HIS5	Gastric Wedge Resection	£595.50
GI Resection – Large	HIS5	Ileoanal Pouch Resection	£595.50
GI Resection – Large	HIS4	Ileostomy	£456.50
GI Resection – Large	HIS3	Ileum	£355.00
GI Resection – Large	HIS5+HIS2	Large Bowel Resection – Benign / Malignant	£886.50
GI Resection – Large	HIS4	Liver Wedge Resection	£456.50
GI Resection – Large	HIS5+HIS2	Oesophagectomy	£886.50
GI Resection – Large	HIS5	Partial Hepatectomy	£595.50
GI Resection – Large	HIS5	Small Bowel Resection – Benign / Malignant	£595.50
GI Resection – Large	HIS5+HIS5	Whipple's Procedure / Pancreatectoduodenectomy	£1,177.50
Gynaecology	HIS2	Cervical Biopsy	£304.50
Gynaecology	HIS1	Cervical Polyp	£204.00
Gynaecology	HIS4	Cervix	£456.50
Gynaecology	HIS1	Curettings – Endocervical	£204.00
Gynaecology	HIS1	Curettings – Endometial	£204.00
Gynaecology	HIS2	Endometrial Biopsy	£304.50
Gynaecology	HIS1	Endometrial Pipelle	£204.00
Gynaecology	HIS1	Endometrial Polyp	£204.00
Gynaecology	HIS2	Fallopian Tube	£304.50
Gynaecology	HIS3	Fibroids	£355.00
Gynaecology	HIS2	Fimbrial Cyst	£304.50
Gynaecology	HIS4	LLETZ and / or Cone Biopsy	£456.50
Gynaecology	HIS2	Mastoid	£304.50
Gynaecology	HIS2	Ovarian Biopsy	£304.50
Gynaecology	HIS2	Ovarian Cyst	£304.50
Gynaecology	HIS1	Ovarian Pipelle	£204.00
Gynaecology	HIS5	Ovaries (Bilateral)	£595.50
Gynaecology	HIS3	Ovary (Unilateral)	£355.00
Gynaecology	HIS4	Ovary and Tube (Unilateral)	£456.50
Gynaecology	HIS5	Ovary and Tube (Bilateral)	£595.50

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See page 25 for sample-taking and special handling instructions.

Histopathology

CATEGORY	CODE	TISSUE SAMPLE	PRICE
Gynaecology	**HIS2**	Pelvic Mass	£304.50
Gynaecology	**HIS1**	Peritoneal Biopsy	£204.00
Gynaecology	**HIS5**	Placenta	£595.50
Gynaecology	**HIS2**	Pouch of Douglas	£304.50
Gynaecology	**HIS1**	Products of Conception	£204.00
Gynaecology	**HIS2**	Uterine Polyp	£304.50
Gynaecology	**HIS4**	Uterus	£456.50
Gynaecology	**HIS5**	Uterus and Cervix	£595.50
Gynaecology	**HIS5**	Uterus, Tubes and Ovaries	£595.50
Gynaecology	**HIS1**	Vulval Biopsy	£204.00
Haemato-Oncology	**HIS5**	Bone Marrow	£595.50
Haemato-Oncology	**HIS2**	Lymph Node	£304.50
Haemato-Oncology	**HIS3**	Lymph Node (Lymphoma)	£355.00
Haemato-Oncology	**HIS3**	Lymph Node (Metastatic Disease)	£355.00
Haemato-Oncology	**HIS5**	Spleen	£595.50
Haemato-Oncology	**HIS5**	Thymus	£595.50
Lung – Biopsy	**HIS3**	Lung Biopsy	£355.00
Lung – Resections	**HIS3**	Lung Lesion Small Wedge Resection	£355.00
Lung – Resections	**HIS5+HIS5**	Lung Resection	£1,177.50
Lung – Resections	**HIS5**	Lung Tumour Resection +/- Nodes	£595.50
Neurosurgery	**HIS3**	Brain Biopsy	£355.00
Neurosurgery	**HIS3**	Brain Resection	£355.00
Neurosurgery	**HIS5+HIS5**	Muscle Biopsy	£1,177.50
Neurosurgery	**HIS3**	Pituitary Gland – Resection	£355.00
Neurosurgery	**HIS3**	Spinal Tumour Biopsy	£355.00
Neurosurgery	**HIS3**	Spinal Tumour Resection	£355.00
Neurosurgery	**HIS4**	Vertebrea	£456.50
Opthalmic	**HIS1**	Conjunctival Biopsy	£204.00
Opthalmic	**HIS1**	Cornea	£204.00
Opthalmic	**HIS4**	Globe / Removal of Eye	£456.50
Opthalmic	**HIS2**	Lacrimal Gland Biopsy / Excision	£304.50
Opthalmic	**HIS1**	Orbit Contents of Eye	£204.00
Orthopaedic	**HIS1**	Bone Biopsy	£204.00
Orthopaedic	**HIS2**	Bone Currettings	£304.50
Orthopaedic	**HIS2**	Bursa	£304.50
Orthopaedic	**HIS2**	Duputrenes Contracture	£304.50

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Histopathology

CATEGORY	CODE	TISSUE SAMPLE	PRICE
Orthopaedic	HIS3	Femoral Head Resection	£355.00
Orthopaedic	HIS1	Ganglion Cyst	£204.00
Orthopaedic	HIS3	Joint Resurfacing / Redo Prosthesis Capsule	£355.00
Orthopaedic	HIS1	Neuroma	£204.00
Orthopaedic	HIS2	Synovial Biopsy	£304.50
Orthopaedic	HIS3	Tendon	£355.00
Skin and Soft Tissue	HIS2	Abscess	£304.50
Skin and Soft Tissue	HIS3	Alopecia Biopsies	£355.00
Skin and Soft Tissue	HIS1	Cyst Excision	£204.00
Skin and Soft Tissue	HIS1	Fossa	£204.00
Skin and Soft Tissue	HIS1	Granuloma	£204.00
Skin and Soft Tissue	HIS3	Lipoma	£355.00
Skin and Soft Tissue	HIS2	Skin Excision BCC / SCC	£304.50
Skin and Soft Tissue	HIS1	Nail	£204.00
Skin and Soft Tissue	HIS1	Pilonidal Sinus	£204.00
Skin and Soft Tissue	HIS5	Sentinel Nodes in Skin Cancer (Melanoma)	£595.50
Skin and Soft Tissue	1SK	Skin Biopsy (1 specimen)	£165.50
Skin and Soft Tissue	2SK	Skin Biopsy (2 specimens)	£267.00
Skin and Soft Tissue	3SK	Skin Biopsy (3 specimens)	£304.50
Skin and Soft Tissue	4SK	Skin Biopsy (4 specimens)	£380.50
Skin and Soft Tissue	5SK	Skin Biopsy (5 specimens)	£519.50
Skin and Soft Tissue	6SK	Skin Biopsy (6 specimens)	£595.50
Skin and Soft Tissue	7SK	Skin Biopsy (7 specimens)	£685.00
Skin and Soft Tissue	8SK	Skin Biopsy (8 specimens)	£759.50
Skin and Soft Tissue	9SK	Skin Biopsy (9 specimens)	£836.00
Skin and Soft Tissue	10SK	Skin Biopsy (10 specimens)	£937.00
Skin and Soft Tissue	11SK	Skin Biopsy (11-15 specimens)	£1,063.50
Skin and Soft Tissue	HIS3	Soft Tissue Tumour Biopsy	£355.00
Skin and Soft Tissue	HIS3	Soft Tissue Tumour Resection	£355.00
Urology – Biopsy	HIS1	Bladder Biopsy	£204.00
Urology – Biopsy	HIS1	Core Biopsy (Urology)	£204.00
Urology – Biopsy	HIS2	Hydrocele	£304.50
Urology – Biopsy	HIS2	Penile Biopsy	£304.50
Urology – Biopsy	HIS1	Prostate Biopsy	£204.00
Urology – Biopsy	2H1	Prostate Biopsies x 2	£304.50
Urology – Biopsy	3H1	Prostate Biopsies x 3	£355.00

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Histopathology

CATEGORY	CODE	TISSUE SAMPLE	PRICE
Urology – Biopsy	**4H1**	Prostate Biopsies x 4	£456.50
Urology – Biopsy	**5H1**	Prostate Biopsies x 5	£456.50
Urology – Biopsy	**6H1**	Prostate Biopsies x 6	£456.50
Urology – Biopsy	**7H1**	Prostate Biopsies x 7	£456.50
Urology – Biopsy	**8H1**	Prostate Biopsies x 8	£456.50
Urology – Biopsy	**9H1**	Prostate Biopsies x 9	£595.50
Urology – Biopsy	**10H1**	Prostate Biopsies x 10-12	£595.50
Urology – Biopsy	**HIS5**	Testicular Biopsy (Bilateral)	£595.50
Urology – Biopsy	**HIS4**	Testicular Biopsy (Unilateral)	£456.50
Urology – Biopsy	**HIS1**	Urethral Biopsy	£204.00
Urology – Biopsy	**HIS2**	Vasectomy	£304.50
Urology – Resection	**HIS5+HIS5**	Cystoprostatectomy	£1,177.50
Urology – Resection	**HIS3**	Epididymis	£355.00
Urology – Resection	**HIS1**	Foreskin / Circumcision	£204.00
Urology – Resection	**HIS5**	Nephrectomy / Kidney	£595.50
Urology – Resection	**HIS5+HIS5**	Prostatectomy	£1,177.50
Urology – Resection	**HIS5+HIS5**	Radical Cystectomy	£1,177.50
Urology – Resection	**HIS3**	Testis	£355.00
Urology – Resection	**HIS3 – HIS5+**	TURBT (dependent on number of blocks)	£1,077.00
Urology – Resection	**HIS3 – HIS5**	TURP (dependent on number of blocks)	£950.50

Special stains

1SS	£26.50
2SS	£52.50
3SS	£79.00
4SS	£105.00
5SS	£131.50

Immunohistochemistry

1IMM	£59.00
2IMM	£118.00
3IMM	£176.50
4IMM	£235.50
5IMM	£294.00

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Non-invasive prenatal testing

Non-invasive prenatal testing (NIPT)

Non-invasive prenatal testing (NIPT) screens for the presence of specific chromosome disorders in the developing fetus. The test analyses fragments of cell-free DNA in maternal plasma that have been released from both maternal and placental cells.

By analysing the proportions of cell-free DNA fragments derived from different chromosomes or chromosome regions, NIPT can screen for the presence or absence of specific chromosome disorders.

NIPT is more accurate than first trimester maternal serum screening and ultrasound in identifying pregnancies with or without these disorders.

TDL Genetics uses the NIPT assay VeriSeq NIPT Solution v2, which is manufactured by Illumina and is processed at our laboratory in London.

Targeted screening for specific common chromosome disorders

Our NIPT assay is designed to screen for:

- Trisomy 21 (Down syndrome), which is associated with moderate to severe intellectual disability, congenital heart defects and other malformations;
- Trisomy 18 (Edwards syndrome) and trisomy 13 (Patau syndrome), which are associated with severe brain and cardiac malformations. There is a high risk of stillbirth or death during infancy; and
- Sex chromosome aneuploidy (abnormalities in the number of X or Y chromosomes), which can be associated with malformations and infertility, Turner syndrome (45,X) and Klinefelter syndrome (47,XXY). Triple X syndrome and XYY syndrome can also be detected. This screen is optional (no additional cost).

In addition, NIPT can also assess fetal sex. This is optional (no additional cost).

NIPT does not screen for non-chromosome disorders, familial mutations, malformations, fetal growth or fetal viability.

SCAN ME

Find out more about NIPT on the TDL website:

www.tdlpathology.com/non-invasive-prenatal-testing/

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Alphabetical test index

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
1,25 Vitamin D	D3	B*	5-8 days	£149.00	151
1p36 Deletion Syndrome – karyotype + CGH	KARY, FISH	**CVS / AF /** H [9]	12-17 days	£847.50	116
2-Butanone GC	BUTA	**RU**	7 days	£154.00	166
5 HIAA	RU5H	**PU** (collect on acid) [1]	5 days	£103.50	29
5' Nucleotidase	5NT	B	5 days	£86.00	29
6-Thioguanine Nucleotides	TGN	A A	2 weeks	£181.50	29
7 STI Profile by PCR (7 tests from 1 Sample)	DL12	**FCRU / PCR Swab / TPV**	2 days	£140.00	72, 77
7 STI Profile by PCR (7 tests from 1 Sample) (Self-collect)	DL12	Aptima urine or multisite swab	2 days	£140.00	72, 158
7 STI Profile by PCR (7 tests from 1 Sample) (Thin Prep)	PP12	**TPV**	2 days	£296.50	170
11 Deoxycorticosterone	DEOX	B	10 days	£128.50	57
11 Deoxycortisol	11DC	B (Frozen)	10 days	£195.00	57
16S rRNA Bacterial Gene	16S	**J**	1 week	£277.50	47
17 Hydroxyprogesterone	17OH	B	5 days	£120.00	57
18S rRNA Fungal Gene	18S	**J**	1 week	£277.50	47
21 Hydroxylase Ab's	21HA	B (Frozen)	10 days	£237.00	29
21-Hydroxylase Deficiency (Congenital Adrenal Hyperplasia CYP21A2)	GENE	A [9,11]	5 weeks	£750.00	116
22q11 & 10p14 deletion (Di George Syndrome) – BOBs only	DGB	**CVS / AF /** A [9]	5 days	£260.00	116
Acetone – Blood	ACTB	A or H	2 weeks	£116.50	166
Acetone – Urine	ACTU	**RU**	5 days	£116.50	166
Acetylcholine Receptor Autoantibodies	ACRA	B [4]	5 days	£224.00	29
Achromatopsia NGS Panel	GENE	A A [9]	5 weeks	£1,600.00	116
Acid Phosphatase – Total	APT	B	5 days	£52.50	29
ACTH (Adrenocorticotropic Hormone)	ACTH	A (EDTA on ice, Plasma, spun and frozen within 2 hours) [41]	1 day	£140.00	57
Activated Protein C Resistance	APCR	C (Frozen) [4,18]	3 days	£108.50	42
Acute Viral Hepatitis Screen	AHSC	B	1 day	£184.00	83, 89
ADAMTS-13 Activity	CP13	C (Frozen) [4,18]	3 days	£100.00	42
ADAMTS-13 Antibody	A13A	C (Frozen) [9,18]	2 weeks	£130.00	42
Adenomatous Polyposis NGS Panel	GENE	A [9]	4 weeks	£875.00	116
Adenosine Deaminase	AD	A / B / **Fluid**	3 weeks	£300.50	29
Adenovirus by PCR	ADV	A / **PCR / VS**	7 days	£281.00	102
Adiponectin	ADIP	B	2 weeks	£239.00	29
Adrenal Cortex Antibodies	ACTX	B	2 days	£65.50	83
Aicardi-Goutières Syndrome NGS Panel	GENE	A A [9]	5 weeks	£1,600.00	116
Alagille Syndrome NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	116
Albumin	ALB	B	1 day	£30.50	29
Alcohol (Medical)	ALCO	G [1]	1 day	£85.00	29
Alcohol (Urine)	UALC	**RU**	1 day	£85.00	29

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Alphabetical test index

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Alcohol Profile	AP	A B B G	5-7 days	£200.50	163, 166
Alcohol Profile 2	ALCP	A A B B G RU	5-7 days	£271.00	163, 166
Aldolase	ALDO	B	5 days	£62.50	29
Aldosterone	ALDN	A or B	5 days	£138.00	57
Aldosterone (Urine)	UALD	PU	5 days	£140.00	57
ALEX² Allergy Test (Self-collect)	ALEX	B (TDL Tiny)	3-4 days	£331.00	141, 158
ALEX² Allergy Test (Venous)	ALEX	B (Serum)	3-4 days	£331.00	141, 146
Alkaline Phosphatase	ALP	B	1 day	£30.50	29
Alkaline Phosphatase Isoenzymes	APIE	B	5 days	£121.00	29
Allergic Rhinitis/Asthma Profile	ALRN	B B	2 days	£309.00	141, 146
Allergy – Individual Allergens	ALLE	B	2 days	£42.00	141
Allergy – 5 x Single Individual Allergens	5AL	B	2 days	£157.50	141
Allergy – 10 x Single Individual Allergens	10AL	B	2 days	£304.50	141
Allergy Profile 1 (Food & Inhalants)	1A	B B	2 days	£578.50	141, 144
Allergy Profile 2 (UK Aero Allergen)	2A	B B	2 days	£319.00	141, 144
Allergy Profile 3 (Food)	3A	B B	2 days	£289.00	141, 144
Allergy Profile 4 (Nuts & Seeds)	4A	B B	2 days	£409.00	141, 144
Allergy Profile 5 (Children's Panel)	5A	B B	2 days	£289.00	141, 144
Allergy Profile 6 (Shellfish)	6A	B B	2 days	£260.00	141, 145
Allergy Profile 7 (Finfish)	7A	B B	2 days	£260.00	141, 145
Allergy Profile 8 (Cereal – singles)	8A	B B	2 days	£152.00	141, 145
Allergy Profile 9 (Antibiotics)	9A	B B	2 days	£119.00	141, 145
Allergy Profile 10 (Insects)	10A	B B	2 days	£185.00	141, 145
Allergy Profile 11 (Combined Shellfish/Finfish)	11A	B B	2 days	£208.50	141, 145
Allergy Profile 12 (Milk & Milk Proteins)	12A	B B	2 days	£229.50	141, 145
Allergy Profile 13 (Stone fruit/Rosaceae family)	13A	B B	2 days	£229.50	141, 146
Alpha Gal Components (related to red meat)	ZZ37	B	2 days	£70.50	142
Alpha Thalassaemia – multiplex PCR for common large deletions	GENE	A [9]	3 weeks	£200.00	116
Alpha-1-Antitrypsin (Serum)	A1AT	B	1 day	£121.00	29
Alpha-1-Antitrypsin (Stool)	A1AF	RF	10 days	£93.00	29
Alpha-1-Antitrypsin Genotype – PI*M, PI*S, PI*Z	GENE	A [9]	3 weeks	£250.00	29, 116
Alpha-1-Glycoprotein	OROS	B (Frozen)	5 days	£170.00	29
Alpha-1-Microglobulin	A1MG	RU [1,22]	10 days	£87.00	29
Alpha-2-Macroglobulins	A2MG	B	5 days	£116.50	29
Alpha-Fetoprotein	AFP	B	1 day	£60.00	29, 57, 106
Alport Syndrome NGS Panel – full sequencing with deletions and duplications	GENE	A A [9]	5 weeks	£1,600.00	116
ALT (Alanine Aminotransferase) (SGPT)	ALT	B	1 day	£30.50	29
Alternaria Components	ZZ1	B	2 days	£70.50	142
Aluminium (Blood)	ALUM	K	7 days	£80.00	29, 165
Aluminium (Urine)	ALUU	RU	1-2 weeks	£107.00	165

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Alphabetical test index

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Amenorrhoea Profile (LH, FSH, PROL, TEST, TOES, SHBG, FAI) (Self-collect) CHANGE	TAME	F (TDL Tiny)	1 day	£150.00	57, 158
Amenorrhoea Profile (Venous)	AMEN	B	1 day	£150.00	57, 62
Amikacin Level (State dose)	AMIK	B[4]	1 day	£121.00	137
Amino Acid (EDTA Plasma)	AMIN	A (Frozen EDTA Plasma)	7 days	£360.50	29
Amino Acid Quantitative (Urine)	UAAQ	**RU** (Frozen)	7 days	£360.50	29
Aminolevulinic Acid (Urine)	RUAL	100mls **PU**	5 days	£70.50	29
Amitriptyline	AMTR	A[4]	5 days	£115.00	138
Ammonia	AMMO	A (Frozen)[15]	1 day	£94.50	29
Amoebic (E. histolytica) Antibodies	AFAT	B	1 week	£54.00	92
Amoebic (E. histolytica) PCR	AMAG	**RF**	2 days	£55.00	92
Amphetamines – Blood	AMPB	B B	5 days	£91.00	163
Amylase (Self-collect)	AMY	B (TDL Tiny)	1 day	£51.50	29, 158
Amylase (Urine)	UAMY	**CU**	1 day	£51.50	29
Amylase (Venous)	AMY	B	1 day	£51.50	29
Amylase Isoenzymes	AMYI	B	5 days	£193.00	29
Amyloidosis (Amyloid A Protein)	SAA	B	5 days	£108.50	29
Anaemia Profile	ANAE	A A B	2 days	£174.00	41, 44
Anafranil (Clomipramine)	CHLO	A	7 days	£121.00	138
ANCA (Anti-Neutrophil Cytoplasmic Abs)	ANCA	B	2 days	£116.50	83
Andropause Profile	ANDP	B B	1 day	£185.00	57, 62
Androstanediol Glucuronide	ANDG	B	3 weeks	£146.00	29
Androstenedione	ANDR	B	5 days	£94.50	57
Angiotensin Converting Enzyme	ACE	B	1 day	£90.00	30
Angiotensin Converting Enzyme – CSF	ACEF	**CSF** (Frozen)	2 weeks	£124.00	30
Angiotensin II	ANG2	A (Frozen plasma)	2 weeks	£148.00	30
Antenatal Profile	ANTE	A A[33] B B B G	3 days	£588.00	41, 44
Anti-Actin Antibodies	AAA	B	5 days	£87.00	83
Anti-Basal Ganglia Antibodies	ABGA	B	3 weeks	£438.00	83
Anti-CCP Antibodies	CCP	B	2 days	£54.00	83
Anti-Liver Cytosol Antibodies	ALCA	B	5 days	£80.00	83
Anti-MOG [Myelin Oligodendrocyte Glycoprotein] Antibodies	AMOG	B	3 weeks	£128.50	83
Anti-MUSK Antibodies	MUSK	B	2 weeks	£341.00	83
Anti-Nuclear Antibodies (titre & pattern)	ANAB	B	2 days	£55.00	83
Anti-Phosphatidylserine Antibodies	PHTS	B	5 days	£151.00	83
Anti-Phospholipase A2 Receptor	AA2R	B	6 weeks	£106.00	83
Anti-SLA (Soluble Liver Antigen) Abs	LSA	B	5 days	£124.00	83
Anti-Staphylolysin Titre (SGOT)	ASTT	B	3 days	£57.50	83
Anti-Streptolysin Titre/ASOT	ASLT	B	2 days	£60.00	83
Anti-Sulfatide Antibodies	ASA	B	5 weeks	£257.00	83
Anti-Xa Apixaban Monitoring	APIX	C (Frozen)*[18]	3 days	£120.00	42
Anti-Xa Edoxaban Monitoring	EDOX	C (Frozen)*[18]	3 days	£198.50	42

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Anti-Xa Fondaparíux Monitoring	FOND	C Frozen)*[18]	3 days	£110.50	42
Anti-Xa LMWH Monitoring	LMWX	C (Frozen)*[18]	3 days	£110.50	42
Anti-Xa Rivaroxaban Monitoring	RIVA	C (Frozen)*[18]	3 days	£120.00	42
Antidiuretic Hormone	ADH	A A (Plasma Frozen)[4]	10 days	£163.50	57
Antimony (Urine)	ANTI	**RU**[30]	10 days	£106.00	30
Antimullerian Hormone (AMH) (Self-collect)	AMH	B (TDL Tiny) or F (TDL Tiny)	1 day	£130.50	30, 57, 158
Antimullerian Hormone (AMH) (Venous)	AMH	B	1 day	£130.50	30, 57
Antithrombin III Activity	A111	C (Frozen)[4,9,18]	3 days	£82.50	42
AP50 Alternative Hemolytic Complement	AP50	B (Frozen)	2 weeks	£136.00	30
Apolipoprotein A1 (Self-collect) NEW	APOA	B (TDL Tiny)	3 days	£76.00	30, 159
Apolipoprotein A1 (Venous)	APOA	B	3 days	£76.00	30
Apolipoprotein B (Self-collect) NEW	APOB	B (TDL Tiny)	3 days	£76.00	30, 159
Apolipoprotein B (Venous)	APOB	B	3 days	£76.00	30
Apolipoprotein C	APOC	B	3 months	£91.00	30
Apolipoprotein E (12 hours fasting)	APOE	B (fasting)	5 days	£93.00	30
Apple Components	ZZ36	B	2 days	£103.50	142
APTT/KCCT	KCCT	C[18]	1 day	£43.50	41
Aquaporin 4 Antibodies (Neuromyelitis Optica)	AQUA	B	2 weeks	£276.00	83
Arbovirus Antibodies/Abs	ARBO	B[9,14]	3 weeks	£193.00	102
Array-CGH (Comparative Genomic Hybridisation) SNP array	CGH	**CVS / AF** / A H[9]	10 days	£822.50	117
Arsenic (Blood)	ARS	A or H	5 days	£83.50	30, 165
Arsenic (Urine)	ARSE	**RU**[30]	5 days	£83.50	30, 165
Arylsulphatase A	ARYL	H[5,6]	8 weeks	£325.50	30
Ascariasis Serology	ASC	B	5 days	£87.00	83
Ashkenazi Jewish Carrier Screen	GENE	A[9]	4 weeks	£600.00	117
Aspartate Transaminase (AST) (SGOT)	AST	B	1 day	£30.50	30
Aspergillus Components	ZZ2	B	2 days	£203.00	142
Aspergillus Precipitins	ASPP	B	5 days	£128.50	83
Ataxia NGS Panel	GENE	A A[9]	6 weeks	£1,600.00	117
Atopic Dermatitis/Eczema Profile (14 allergens)	ALEC	B B	2 days	£331.00	141, 146
Atypical Antibody Screen (handwritten tube label)	AASC	A[22,33]	2 days	£58.50	41
Atypical Pneumonia Screen	APS	B	3 days	£140.00	102, 104
Autoantibody Profile I	AUTO	B	2 days	£152.00	83, 89
Autoantibody Profile II	ENDO	B	3 days	£143.50	83, 89
Avian Precipitins (11 Species)	AVIA	B	5 days	£369.50	83
Babesia PCR	PCRB	A	7 days	£109.50	83
Bancroftia/Oncerciasis/Filarial Antibodies	TFIF	B[14]	2 weeks	£171.00	92
Beckwith-Wiedemann Syndrome – methylation studies on 11p15 imprinting domains KvDMR + H19	GENE	A[9,11]	6 weeks	£600.00	118

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Bence-Jones Protein	RBJP	**RU** or **CU**	5 days	£102.50	30
Benzene	BENZ	**J** [1,6]	3 days	£135.00	166
Beta 2 Glycoprotein 1 Abs	B2GP	B	2 days	£124.00	83
Beta 2 Microglobulin (Serum)	B2MG	B	2 days	£97.00	30, 166
Beta 2 Microglobulin (Urine)	UB2M	**RU**	3 days	£109.50	30, 166
Beta Carotene	CARO	B	5 days	£139.00	151
Beta D Glucan	XBDG	B	3 days	£130.50	47
Beta Thalassaemia – beta-globin gene sequencing + deletions/duplications	GENE	A [9]	4 weeks	£600.00	118
Beta-Glucuronidase (Sly Disease)	BGLU	H H [9,4]	8 weeks	£276.00	30
Bicarbonate	HCO3	B	1 day	£26.00	30
Bile Acids – Serum	BILE	B	1 day	£66.50	30
Bilharzia (Schistosome) Antibody Screen	BILH	B [14]	10 days	£116.50	92
Bilharzia (Urine)	USCH	Mid-morning terminal urine following exercise [14]	1-2 days	£73.50	92
Bilirubin (Direct)	DBIL	B	1 day	£30.50	30
Bilirubin (Indirect)	IBIL	B	1 day	£30.50	30
Bilirubin (Total)	BILI	B	1 day	£30.50	30
Biotin	BIOS	B [7]	5 days	£154.00	151
Biotinidase	BIOT	H (Frozen plasma) [4]	3 weeks	£185.00	30
Birch Components	ZZ3	B	2 days	£171.00	142
Bismuth	BISM	B	5 days	£161.00	30
BK Polyoma Virus by PCR	BKPV	A **/RU**	5 days	£236.00	102
Blood Culture#	BCUL	2 x **BC** [4]	6 days +	£100.00	47
Blood Film Examination	FILM	A	1 day	£36.00	41
Blood Group †	ABO	A [22,33]	2 days	£64.50	41
BNP (NT-pro BNP)	BNP	B	1 day	£94.50	30, 57
Bone Alkaline Phosphatase	BALP	B (Frozen)	2 weeks	£120.00	30
Bone Marrow (Aspirate)	BMAS	**J** [1]	14 days	£531.00	44
Bone Marrow (Trephine Biopsy)	BMI	**J** [1]	3 days	£642.00	44
Bone Screen	BONE	B **CU**	1 day	£56.50	30, 38
Bone Screen (Bloods only)	BON2	B	1 day	£129.50	30, 38
Borrelia Antibodies (Lyme Disease) IgG, IgM	BORR	B [9,14]	2 days	£94.50	83, 92
Borrelia Antibodies (Lyme Disease) IgM	BORM	B	2 days	£73.50	83, 92
Borrelia Confirmation (Immunoblot)	BORC	B [9,14]	10 days	£351.00	83, 92
Brazil Components	ZZ4	B	2 days	£70.50	142
Breast Cancer NGS Panel	GENE	A A [9,11]	4 weeks	£850.00	106
Bromide	BROM	B	3 days	£148.00	166
Brucella Serology	BRUC	B [9]	2-3 weeks	£98.50	83
BUN (Blood Urea Nitrogen) (Calculated)	BUN	B	1 day	£33.50	30
C Peptide	CPEP	B	3 days	£134.00	57
C Reactive Protein (Self-collect)	CRP	B (TDL Tiny)	1 day	£54.00	31, 159
C Reactive Protein (Venous)	CRP	B	1 day	£54.00	31

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
C Reactive Protein (High Sensitivity) (Self-collect)	HCRP	B (TDL Tiny)	1 day	£54.00	31, 159
C Reactive Protein (High Sensitivity) (Venous)	HCRP	B	1 day	£54.00	31
C1 Esterase Inhibitor	C1EI	B	5 days	£93.00	83
C1 Esterase: Function & Total	FC1E	C C (Plasma Frozen)[4,18]	10 days	£196.50	31
C1q Binding Immune Complex	IMCP	B	5 days	£106.00	31
C3 Complement	C3	B	1 day	£55.00	83
C3/C4 Complement	COMP	B	1 day	£91.00	83
C4 Complement	C4	B	1 day	£55.00	83
CA 15-3	C153	B	1 day	£127.00	106
CA 19-9	C199	B	1 day	£127.00	106
CA 50	CA50	B	5 days	£157.50	106
CA 72-4	C724	B	5 days	£136.00	106
CA 125 (Self-collect)	C125	B (TDL Tiny)	1 day	£127.00	106, 159
CA 125 (Venous)	C125	B	1 day	£127.00	106
CADASIL – NOTCH3 gene sequencing	GENE	A [9]	6 weeks	£750.00	118
Cadmium (Blood)	CADM	A or H	5 days	£83.50	31, 165
Cadmium (Urine)	URCD	**RU** [30]	5 days	£83.50	31, 165
Caeruloplasmin	CERU	B	1 day	£57.50	31, 152
Calcitonin	CATO	B (Frozen)[4]	1 day	£139.00	57
Calcium (24 hour Urine)	UCA	**PU** or acid urine	1 day	£33.50	31
Calcium (Venous)	CA	B	1 day	£30.50	31
Calcium + Vitamin D (Venous)	CALD	B	1 day	£106.50	31
Calcium/Creatinine Ratio	CACR	**CU** B	1 day	£57.50	31
Calprotectin	CALP	**QFIT** sample collection device	5 days	£97.00	31
Calprotectin (Self-collect)	CALP	**QFIT** sample collection device	5 days	£97.00	31, 159
Calprotectin/QFIT Profile (Combined) (QFIT)	QCAL	**QFIT**	5 days	£154.50	31, 39
Calprotectin/QFIT Profile (Combined) (Self-collect)	QCAL	**QFIT** sample collection device	5 days	£154.50	31, 159
Campylobacter Jejuni Antibodies	CJAB	B	5 days	£81.00	83
Cancer, Comprehensive NGS Panel	GENE	A A [9,11]	5 weeks	£1,200.00	118
Candida (Culture for ID + Sensitivities)	CAND	**STM/CS**	2-4 days	£81.00	47
Candida (Culture for ID Only)	CANC	**STM/CS**	2-4 days	£81.00	47
Candida Antibodies	CANA	B	5 days	£120.00	83
Candida auris Screen	CANS	**STM/CS**	2-4 days	£103.00	47
Cannabinoids (Urine) Screen	CANN	**RU**	1 day	£55.00	163
Carbamazepine (Tegretol)	CARB	B	1 day	£65.50	138
Carbapenemase producing organism screen	MDR	**STM** (rectal)	4-5 days ‡	£116.50	47
Carbohydrate Deficient Glycoprotein	CDG	B	2 weeks	£293.50	31
Carbohydrate Deficient Transferrin (CDT) (Self-collect)	CDT	B (TDL Tiny)	3 days	£161.00	31, 159
Carbohydrate Deficient Transferrin (CDT) (Venous)	CDT	B	3 days	£161.00	31

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Carboxyhaemoglobin	CBHB	A	1 week	£83.50	41
Carcino Embryonic Antigen	CEA	B	1 day	£80.00	106
Cardiolipin Antibodies (IgG+IgM)	ACAB	B	2 days	£82.50	83
Cardiomyopathy, Dilated NGS Panel	GENE	A A [9]	6 weeks	£1,100.00	118
Cardiomyopathy, Hypertrophic NGS Panel	GENE	A A [9]	6 weeks	£1,100.00	118
Cardiovascular Risk Profile 1	PP10	B B	3 days	£362.50	31, 38
Cardiovascular Risk Profile 2	PP11	B B B C [34]	3 days	£437.00	31, 39
Cardiovascular, Comprehensive NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	118
Carotenes	CARO	B	5 days	£139.00	151
Carrier Screen (Ashkenazi Jewish)	GENE	A [9]	4 weeks	£600.00	130, 133
Carrier Screen (Ashkenazi Jewish) – Partnered Report	GENE	A [9]	4 weeks	£750.00	133
Carrier Screen (Pan-Ethnic)	GENE	A [9]	4 weeks	£600.00	130, 133
Carrier Screen (Pan-Ethnic) – Partnered Report	GENE	A [9]	4 weeks	£750.00	133
Cashew Components	ZZ35	B	2 days	£70.50	142
Cat Components	ZZ5	B	2 days	£103.50	142
Cat Scratch Fever (Bartonella IgG)	CAT	B	5 days	£208.50	102
Catecholamines (Plasma)	CATE	A A (Plasma Frozen) [4]	5 days	£124.00	57
Catecholamines (Urine)	UCAT	PU (collect on acid) [1]	5 days	£157.50	57
CCP Antibodies (RF)	CCP	B	2 days	£54.00	84
CD3/CD4/CD8	LYSS	A	1 day	£257.00	102
CD16	CD16	A [4]	1 day	£124.00	44
CD19 B Cells	CD19	A [4]	1 day	£124.00	44
CD20	CD20	A [10]	2 days	£135.00	44
CD25	CD25	A [10]	2 days	£91.00	44
CD56	CD56	A [4]	1 day	£87.00	44
CD57	CD57	A	1 day	£120.00	44
Celery Components	ZZ6	B	2 days	£70.50	142
Cervical Cytology	PAPT	TPV	6 days (combined report)	£88.00	172
Cervical Cytology + HP20	PAPT + HP20	TPV	6 days (combined report)	£203.00	172
Cervical Cytology + HPVH	PAPT + HPVH	TPV	6 days (combined report)	£161.50	172
Cervical Cytology + HPVT	PAPT + HPVT	TPV	6 days (combined report)	£234.00	172
CH50 (Classical pathway)	CH50	B (Frozen) [4]	4 days	£120.00	84
Chagas Disease Serology (S.American Trypanosomiasis) T. Cruzi	CHGA	B [9,14]	10 days	£151.00	84
Charcot-Marie-Tooth Syndrome NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	119
Chest Pain Profile	CPP	B	STAT	£138.00	31, 39
Chikungunya Virus Abs	CHIK	B [9,14]	10 days	£193.00	102
Chlamydia – PCR swab	SPCR	PCR	2 days	£80.00	72

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Chlamydia – Thin Prep	TPCR	**TPV**	2 days	£93.00	72, 170
Chlamydia – Urine	CPCR	**FCRU**	2 days	£80.00	72
Chlamydia Species Specific (MIF) Ab Screen	CHAB	B	3 days	£107.00	84, 89
Chlamydia/Gonorrhoea – PCR Swab	SCG	**PCR**	2 days	£80.00	72
Chlamydia/Gonorrhoea – Rectal (PCR)	RSCG	**PCR**	2 days	£80.00	72
Chlamydia/Gonorrhoea – Rectal (Self-collect)	RSCG	Aptima multisite swab	2 days	£80.00	72, 159
Chlamydia/Gonorrhoea – Thin Prep	TCG	**TPV**	2 days	£93.00	72, 170
Chlamydia/Gonorrhoea – Throat (PCR)	TSCG	**PCR**	2 days	£80.00	72
Chlamydia/Gonorrhoea – Throat (Self-collect)	TSCG	Aptima multisite swab	2 days	£80.00	72, 159
Chlamydia/Gonorrhoea – Urine (FCRU)	CCG	**FCRU**	2 days	£80.00	72
Chlamydia/Gonorrhoea – Urine (Self-collect)	CCG	Aptima urine	2 days	£80.00	72, 159
Chlamydia/Gonorrhoea – Vaginal (Self-collect)	SCG	Aptima multisite swab	2 days	£80.00	72, 159
Chlamydia/Gonorrhoea/ Trichomonas – PCR Swab	SCGT	**PCR**	2 days	£120.00	72
Chlamydia/Gonorrhoea/Trichomonas – Thin Prep	TCGT	**TPV**	2 days	£120.00	72, 170
Chlamydia/Gonorrhoea/Trichomonas – Urine	CCGT	**FCRU**	2 days	£120.00	72
Chloride	CL	B	1 day	£26.00	31
Cholesterol	CHO	B	1 day	£28.00	31
Cholesterol (Familial Hypercholesterolaemia)	GENE	A A [9]	7 weeks	£665.50	31
Cholinesterase (Serum/Pseudo)	CHPS	B	1 day	£56.50	31, 166
Chromium (Blood)	CHRO	A / Trace metal / H	5 days	£73.50	31, 165
Chromium (Urine)	URCR	**RU** [30]	4 weeks	£73.50	31, 165
Chromogranin A	CGA	B	1 week	£163.50	32
Chromogranin A & B	MTAB	A (Frozen plasma)	3 weeks	£286.50	32
Chromosome Analysis (Blood)	KARY	H [9]	2-3 weeks	£469.00	119
Chronic Fatigue Syndrome Profile	VIP1	A + B [10]	5 days	£409.00	84, 89
Citrate (Blood)	CITR	B	5 days	£90.00	32
Citrate (Urine)	UCIT	**CU** (Frozen)	5 days	£92.00	32
CK (MB Fraction)	CKMB	B	1 day	£50.50	32
CK Isoenzymes	CKIE	B	5 days	£121.00	32
Clobazam	CLOB	A	5 days	£121.00	138
Clomipramine (Anafranil)	CHLO	A	7 days	£121.00	138
Clonazepam	CLON	A	7 days	£109.50	138
Clostridium Difficile Toxin by PCR	CLOS	**RF***	2 days	£103.00	47
CMV IgM Antibodies	CMVM	A (Plasma) or B (Serum)	1 day	£136.00	102
Coagulation Profile 1	CLPF	C [18]	1 day	£83.50	41, 44
Coagulation Profile 2	CLOT	A C [18]	1 day	£109.50	41, 44
Cobalt (Blood)	COB	A	5 days	£83.50	32
Cobalt (Urine)	COBA	**RU** [30]	5 days	£83.50	32, 165
Cocaine (Urine) Screen	UCOC	**RU**	1 day	£31.50	163
Coeliac Disease – HLA DQ2/DQ8 Genotype	Q2Q8	A [9]	10 days	£209.50	84, 119
Coeliac/Gluten Genetic Profile 2	GSA2	A B	10 days	£357.00	84, 89

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Coeliac/Gluten Sensitivity Profile	GSA	B	2 days	£170.00	84, 89
Coenzyme Q10	CQ10	B	2 weeks	£163.50	32
Cold Agglutinin	CAGG	J[1]	5 days	£66.50	32
Colloid Antigen-2 Antibodies	CA2A	B	2 weeks	£124.00	84
Complement C1q	C1Q	B	5 days	£76.00	32
Complement C2	C2	B	10 days	£173.00	32
Complement C3	C3	B	1 day	£55.00	32
Complement C4	C4	B	1 day	£55.00	32
Complement C5	C5A	B	2 weeks	£173.00	32
Complement C6	C6	B (Frozen)*	5 weeks	£80.00	32
Complement C7	C7	B (Frozen)*	5 weeks	£80.00	32
Complement C8	C8	B (Frozen)*	5 weeks	£81.00	32
Complement C9	C9	B (Frozen)*	5 weeks	£80.00	32
Complement Factor H	FACH	B	3 weeks	£169.00	32
Complex PSA (Prostate Specific Ag)	CPSA	B	3 days	£80.00	106
Congenital Adrenal Hyperplasia NGS Panel	GENE	A[9]	6 weeks	£1,600.00	120
Congenital Myopathy NGS Panel	GENE	AA[9]	6 weeks	£1,600.00	120
Connective Tissue Disorders NGS Panel	GENE	AA[9]	6 weeks	£1,600.00	120
Coombs (Direct Antiglobulin Test)	COOM	A	2 days	£35.00	43
Copper (Serum)	COPP	B or K	5 days	£62.50	32, 152, 165
Copper (Urine)	URCU	**CU**	5 days	£62.50	32, 165
Cornelia de Lange Syndrome NGS Panel	GENE	AA[9]	6 weeks	£1,200.00	120
Cortisol (Self-collect)	CORT	B (TDL Tiny)	1 day	£57.50	57, 159
Cortisol (Urine)	UCOR	**CU**	5 days	£78.50	57
Cortisol (Venous)	CORT	B	1 day	£57.50	57
Cortisol Binding Globulin	CBG	B (Frozen)	1 month	£128.50	32
Cotinine (Serum)	COT	B	4 days	£96.00	84
Cotinine (Urine)	COTT	**RU**	2 days	£72.50	32
COVID-19 (SARS-CoV-2) (PCR)	NCOV	**PCR Swab** (nasal/pharyngeal)	1 day	£187.00	102
COVID-19 (SARS-CoV-2) RNA by PCR (Self-collect)	NCOV	Aptima multisite swab of nose/throat	1 day	£187.00	102, 159
COVID-19 (SPIKE) Antibodies (Self-collect)	SCOV	B (TDL Tiny)	1 day	£55.50	84, 159
COVID-19 (SPIKE) Antibodies (Venous)	SCOV	**SST/Serum** B (Venous)	1 day	£55.50	84
Cow's Milk Components	ZZ7	B	2 days	£203.00	142
Craniosynostosis NGS Panel	GENE	AA[9]	6 weeks	£1,600.00	120
Creatine Kinase (CK, CPK)	CKNA	B	1 day	£36.00	32
Creatinine (including eGFR) (Self-collect)	CREA	B (TDL Tiny)	1 day	£30.50	32, 159
Creatinine (including eGFR) (Venous)	CREA	B	1 day	£30.50	32
Creatinine (Urine)	UCR	**CU**	1 day	£42.00	32
Creatinine Clearance	CRCL	B **CU**	1 day	£55.00	32
Crosslaps (Serum DPD)	SDPD	B (Freeze within 24 hours)	4 days	£107.00	32

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Cryoglobulins	CRYO	**J** [6]	10 days	£60.00	32
Cryptococcal Antigen	CRYC	**Serum** or **CSF**	1 day	£100.00	47
Cryptosporidium	OCP	**RF**	2 days	£81.00	47
Cryptosporidium Detection by PCR	CRPA	**RF**	2 days	£81.00	92
CSF for Microscopy and Culture	CSF	1.5ml **CSF**	1-3 days	£89.50	47
CSF Screen by PCR	VPCR	**CSF**	2 days	£128.50	102, 104
CT/GC/Trichomonas/Mgen – PCR Swab	SGTM	**PCR Swab**	2 days	£120.00	72, 77
CT/GC/Trichomonas/Mgen – Thin Prep	TGTM	**TPV**	2 days	£120.00	72, 77
CT/GC/Trichomonas/Mgen – Urine	CGTM	**FCRU**	2 days	£120.00	72, 77
Cyclosporin	CYCL	A	1 day	£135.00	32
Cyfra 21-1	CY21	B	4 days	£198.50	106
Cystatin C	CYCC	B	5 days	£104.50	33
Cystine – Quantitative (Beta-CTX)	QCYS	**PU**	5 days	£130.50	33
Cytochrome P450 2C19	2C19	A [9]	10 days	£472.50	120
Cytomegalovirus (CMV-DNA) Amnio	CMVD	**AF**	5 days	£261.00	102
Cytomegalovirus (IgG/IgM) Antibodies	CMV	B	1 day	£85.00	102
Cytomegalovirus (PCR) Semen	SCVM	**Semen**	7 days	£261.00	102
Cytomegalovirus (PCR) Urine	CMVU	**RU**	5 days	£261.00	102
Cytomegalovirus Avidity	CMAV	B	10 days	£130.50	102
Cytomegalovirus DNA (PCR)	CMVP	A	5 days	£261.00	102
Cytomegalovirus Resistance	CMVR	A (6mls)	21 days	£659.00	102
D-Dimers (Fibrinogen Degradation Products)	DDIT	C [4]	1 day	£72.50	41
Decidualization Score (DS)	DSRF	**J** (Contact Referrals)	2-3 weeks	£639.00	61
Dengue Fever PCR	DPCR	A or B [9,14]	2 weeks	£285.50	102
Dengue Virus Serology	DENG	B [9,14]	5 days	£124.00	92
Deoxypyridinoline (DPD) – Serum	SDPD	B (Freeze within 24 hours)	4 days	£107.00	33
Deoxypyridinoline (DPD) – Urine	DPD	**EMU**	4 days	£107.00	33
DHEA	DHEX	B	7-10 days	£142.50	57
DHEA – Urine (Dehydroepiandrosterone)	UDHE	**CU**	3 weeks	£103.50	57
DHEA Sulphate (Self-collect)	DHEA	B (TDL Tiny) or F (TDL Tiny)	1 day	£83.50	57, 159
DHEA Sulphate (Venous)	DHEA	B	1 day	£83.50	57
Diabetic Profile 1	DIAB	A G	1 day	£64.50	33, 39
Diabetic Profile 2	DIA2	A G **RU**	2 days	£124.00	33, 39
Diamine Oxidase Activity	DIAM	B	2 weeks	£98.50	33
Diazepam (Valium)	DIAZ	A	7 days	£109.50	138
Digoxin	DIGO	B	1 day	£90.00	138
Dihydrotestosterone	DHT	B B	7 days	£135.00	57
Dilated Cardiomyopathy NGS Panel	GENE	A A [9]	6 weeks	£1,100.00	120
Diphtheria Antibodies	DIPH	B	5 days	£87.00	84
DL1-DL12 Screening Profiles					26-27
DL12 7 STI Profile by PCR (7 PCR tests from 1 Sample) (Self-collect)	DL12	Aptima urine or multisite swab	2 days	£140.00	159
DNA (Double Stranded) Antibodies IgG	DNAA	B	2 days	£65.50	84

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
DNA (Single Stranded) Antibodies	DNAS	B	5 days	£73.50	84
Dog Components	ZZ8	B	2 days	£136.00	142
Down Syndrome Risk Bloods only (Risk to be calculated by clinician)	HCGF/ PAPA	B	1 day	£91.00	57
Down Syndrome Risk Profile (2nd trimester) Quad	DRP	B DRP form[7,8]	5 days	£223.00	57
Down Syndrome Risk Profile with risk calculation first trimester	DRP	B DRP form + image of scan[7,8]	5 days	£223.00	58
Doxepin Level (Sinequan)	DOXE	A or H	10 days	£121.00	166
Drugs of Abuse from Blood without Chain of Custody	DOAP	B	5 days	£162.50	163
Drugs of Abuse Profile – Random Urine Sample/No Chain of Custody	DOA	**RU**	2 days (5 days with LC-MS/MS confirmation)	£82.50	163-164
Drugs of Abuse Profile – Random Urine Sample/No Chain of Custody Plus Alcohol	DOA3	**RU**	2 days (5 days with LC-MS/MS confirmation)	£109.50	163-164
Drugs of Abuse Profile – With Chain of Custody*	DOAL	**RU/CoC Collection Containers**[1,2]	2 days (5 days with LC-MS/MS confirmation)	£130.50	163-164
Drugs of Abuse Profile – Without Chain of Custody	DOAN	**RU**[2]	2 days (5 days with LC-MS/MS confirmation)	£106.00	163-164
DVT/Pre-travel Screen	DVT1	A A B[9]	5 days	£286.50	41, 45, 92-93, 121, 130
Echinococcus (Hydatid) Antibodies	EFAT	B[9,14]	5 days	£71.50	84, 92
Egg Components	ZZ9	B	2 days	£203.00	142
Ehlers-Danlos Syndrome NGS Panel	GENE	A[9,11]	6 weeks	£1,600.00	121
Ehrlichiosis Antibodies	EHRL	B[9,14]	10 days	£120.00	84
Elastase (RF)	ELAS	**RF**	5 days	£112.00	33
Elastase (Self-collect)	ELAS	Stool/faecal container	5 days	£112.00	33, 159
Electrolytes	ELEC	B	1 day	£36.00	33
Electrolytes (Urine)	UELE	**CU**	1 day	£43.50	33
ELF/Enhanced Liver Fibrosis	ELF	B	5 days	£204.00	33
Endometrial Cancer NGS Panel	GENE	A A[9,11]	4 weeks	£1,100.00	121
Enteric Organism Rapid Detection (RF)	EORD	**RF**	2 days	£224.00	92-93
Enteric Organism Rapid Detection (Self-collect)	EORD	Stool/faecal container	2 days	£224.00	92, 159
Eosin-5 Maleimide Dye binding test for Hereditary spherocytosis (EMA)*	EMA	A	2 days	£165.50	43
Eosinophil Cationic Protein	ECP	B	7 days	£131.50	33
Epanutin (Phenytoin)	PHEN	B	1 day	£65.50	138
Epidermolysis Bullosa NGS Panel	GENE	A A[9]	6 weeks	£1,600.00	121
Epilepsy, Adolescent/Adult Onset Panel	GENE	A	6 weeks	£1,100.00	121
Epilepsy, Comprehensive NGS Panel	GENE	A A[9]	6 weeks	£1,600.00	121
Epstein-Barr Virus Antibodies IgG/IgM	EBVA	B	2 days	£159.00	102
Epstein-Barr Virus PCR	EBVQ	A	5 days	£154.50	102
Erectile Dysfunction Profile	IMPO	A B B G	3 days	£245.00	58, 62

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Erythropoietin	ERY	B	4 days	£92.00	33, 138
ESR	ESR	A	1 day	£33.50	41
Essential Fatty Acid Profile (Red Cell)	EFAR	A [4]	10 days	£194.00	152
Ethosuximide	ETHO	A	7 days	£77.00	138
Extractable Nuclear Antibodies (nRNP, Sm, Ro, La, Jo1, Scl70) CENP-B	ENA	B	2 days	£76.00	84
Fabry Disease, X-linked – GLA gene sequencing	GENE	A [9]	4 weeks	£740.00	121
Facioscapulohumeral Muscular Dystropy (FSHD) – D4Z4 repeat deletion	GENE	A A [9]	9 weeks	£1,250.00	121
Factor II Assay	FAC2	C (Frozen) [9,18]	5 days	£82.50	42
Factor V Assay	FAC5	C (Frozen) [9,18]	5 days	£82.50	42
Factor VII Assay	FAC7	C (Frozen) [9,18]	5 days	£128.50	42
Factor VIII Assay	FAC8	C (Frozen) [9,18]	5 days	£128.50	42
Factor VIII Inhibiting Antibody	F8IA	C C [18]	2 weeks	£128.50	42
Factor IX Assay	F1X	C (Frozen) [9,18]	5 days	£128.50	42
Factor IX Inhibiting Antibody	F9IA	C C [18]	2 weeks	£128.50	42
Factor X Assay	FX	C (Frozen) [9,18]	5 days	£164.50	42
Factor XI Assay	FX1	C (Frozen) [9,18]	5 days	£128.50	42
Factor XII Assay	FX11	C (Frozen) [9,18]	5 days	£128.50	42
Factor XIII Assay	FA13	C (Frozen) [9,18]	5 days	£319.00	42
Faecal Fat (1 day collection)	TFFA	LF [6]	5 days	£161.00	33
Faecal Fat (3 day)	FFAT	LF [6]	5 days	£130.50	33
Faecal Lactoferrin	FLAC	RF	5 days	£87.00	33
Faecal Sugar Chromatography	FCRO	RF (Frozen)	3 weeks	£184.00	33
Familial Hypercholesterolaemia NGS panel	GENE	A A [9]	6 weeks	£650.00	121
Familial Hypocalciuric Hypercalcaemia (FHH) Panel	GENE	A A [9]	6-7 weeks	£1,200.00	121
Familial Mediterranean fever MEFV gene sequencing	GENE	A [9]	5 weeks	£750.00	121
Farmers Lung Precipitins	FARM	B	5 days	£114.00	84
Fasciola Hepatica Antibodies (Liver Fluke)	FASC	B	2 weeks	£145.00	84
Fasting Insulin Resistance Index (FIRI)	FIRI	B G	1 day	£86.00	58
Female Hormone Profile (LH, FSH, PROL, TOES) (Self-collect)	TFIP	F (TDL Tiny) and B (TDL Tiny)	1 day	£150.00	58, 159
Female Hormone Profile (Venous)	FIP	B	1 day	£150.00	58, 62
Ferritin (Self-collect)	FERR	B (TDL Tiny)	1 day	£83.50	33, 159
Ferritin (Venous)	FERR	B	1 day	£83.50	33
Fibrinogen	FIB	C [4,18]	1 day	£44.50	41
Fibrotest (Liver Fibrosis)	FIBT	B	2 weeks	£286.50	33
Filaria (Lymphatic and Non-Lymphatic) Antibodies	FIFA	B [9,14]	10 days	£115.00	92
First Trimester Maternal Screen (PAPP-A/Free Beta-hCG)	FTMS	B	1 day	£91.00	58, 63

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Fish Components	ZZ10	B	2 days	£103.50	142
FK506 (Tacrolimus/Prograf)	FK5	A[4]	1-2 days	£140.00	138
Flecainide (Tambocor)	FLEC	A	5 days	£128.50	138
Fluid Culture	FLUD	**SC**	2-7 days	£115.50	47
Fluid Cytology	CATF	**Fluid**[4]	3 days	£162.50	174
Fluoride (Urine)	UFL	**RU**	5 days	£120.00	33
Fluoxetine (Prozac)	PROZ	A[4]	5 days	£128.50	138
Folate (Red Cell)	RBCF	A	2 days	£52.50	33, 152
Folate (Serum)	FOLA	B	1 day	£52.50	33
Free Fatty Acids	FFA	B (Frozen)[1]	10 days	£136.00	33
Free T3 (Self-collect)	FT3	B (TDL Tiny)	1 day	£55.00	58, 159
Free T3 (Venous)	FT3	B	1 day	£55.00	58
Free T4 (Self-collect)	FT4	B (TDL Tiny)	1 day	£55.00	58, 159
Free T4 (Venous)	FT4	B	1 day	£55.00	58
Friedreich Ataxia – frataxin gene repeat analysis	GENE	A[9]	5 weeks	£300.00	121
Fructosamine	FRUC	B	1 day	£48.00	33
FSH (Self-collect)	FSH	B (TDL Tiny) or F (TDL Tiny)	1 day	£55.00	58, 159
FSH (Venous)	FSH	B	1 day	£55.00	58
Full Blood Count	FBC	A	1 day	£49.00	41
Full Blood Count* (Haemoglobin, White Cell Count, Red Cell Count, Platelets) (Self-collect) NEW	TFBC	A (TDL Tiny)	1 day	£49.00	41, 159
Fungal investigations (non-superficial extended culture)	FUN	All specimens other than Skin, Hair and Nails	3-21 days	£81.00	47
Fungal investigations (superficial/ dermatophyte PCR test)	DERM	Skin, Hair, Nails	3-7 days	£81.00	47
FXIII A Subunit	F13S	C (Frozen)[9,18]	14 days	£386.00	42
G6PD	G6PD	A	4 days	£101.00	43
Gabapentin	GABA	B[4]	5 days	£102.50	138
Galactomanan (Aspergillus Antigen)	SGAL	B	2 weeks	£165.50	47
Galactose-1-Phosphate Uridyltransferase	GAL1	H[5,6]	2 weeks	£258.00	33
Galactosidase – Alpha*	GALA	**J***	6 weeks	£313.50	33
Gall Stone Analysis	RSTA	**STONE**	10 days	£191.00	33
Gamma GT	GGT	B	1 day	£28.00	33
Ganglionic Acetylcholine Receptor Antibodies	GACA	B	9 weeks	£119.00	84
Ganglioside GM1, GD1B, GQ1B Abs	GANG	B	5 days	£243.00	84
Gardnerella vaginalis (Thin Prep)	GVPC	**TPV**	2 days	£93.00	170
Gardnerella vaginalis by PCR	GVPC	**FCRU / PCR / TPV**	2 days	£93.00	72
Gastric Parietal Autoantibodies	GASP	B	2 days	£54.00	84
Gastrin	GAST	A (Plasma frozen)	5 days	£121.00	33
Gastrointestinal Pathogen Profile by PCR (Self-collect)	EORD	Stool/faecal container	2 days	£224.00	92, 159
Gaucher Disease full gene sequencing	GENE	A[9]	6 weeks	£750.00	121

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Genetic Reproductive Profile (Male)	GRP	A H [9]	10-15 days	£936.50	121
Genetics: TDL Genetics					109-136
Gentamicin Assay	GENT	B [4]	1 day	£115.00	137
Gilbert Syndrome – common UGT1A1 repeat variation	GENE	A [9]	2-3 weeks	£300.00	122
Gliadin Antibodies (IgG) (deamidated) (Self-collect)	AGAB	B (TDL Tiny)	2 days	£98.50	84, 160
Gliadin Antibodies (IgG) (deamidated) (Venous)	AGAB	B	2 days	£98.50	84
Globulin (Calculated)	GLOB	B	1 day	£33.50	33
Glomerular Basement Membrane Abs	AGBM	B	2 days	£77.00	84
Glucagon	GLUG	A (Plasma)	10 days	£224.00	34
Glucose	RBG	G	1 day	£29.00	34
Glucose Challenge Test/Mini-GTT	RBGM	G	1 day	£33.50	137
Glucose Tolerance Test (Extended Plus)	GTTX	7 x G, 7 x **RU**	1 day	£294.00	137
Glucose Tolerance Test (Extended)	GTTE	5 x G, 5 x **RU**	1 day	£262.50	137
Glucose Tolerance Test (Short)	GTTS	2 x G, 2 x **RU**	1 day	£102.50	137
Glucose Tolerance Test/OGTT	GTT	3 x G, 3 x **RU**	1 day	£160.00	137
Glucose Tolerance with Growth Hormone	GTT + GHDF	3 x B [35], 3 x G, 3 x **RU**	1 day	£266.50	137
Glucose Tolerance with Insulin	GTTI	3 x B, 3 x G, 3 x **RU**	1 day	£398.00	137
Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency – full G6PD gene sequencing	GENE	A [9]	3-4 weeks	£700.00	122
Glutamic Acid Decarboxylase Antibodies (GAD 65)	GAD	B	5 days	£161.00	84
Gluten Sensitivity Evaluation	GSA	B	2 days	£170.00	84
Gluten Sensitivity Profile	GLUT	A B B	10 days	£369.50	84, 89, 141, 146
Gluten/Coeliac Genetic Profile 2	GSA2	A B	10 days	£357.00	84
Glycan Determinants	ZZ27	B	2 days	£70.50	142
Glycogen storage disease type 2 (Pompe) variant analysis	POMP	A	4 weeks	£1,037.50	122
Gonorrhoea – PCR swab	SGON	**PCR**	2 days	£80.00	72
Gonorrhoea – Thin Prep	TGON	**TPV**	2 days	£93.00	72, 170
Gonorrhoea – Urine	CGON	**FCRU**	2 days	£80.00	72
Gonorrhoea Culture – Cervix	GONC	**CS** ‡‡‡	3-5 days	£81.00	47, 72
Gonorrhoea Culture – Other site	GONO	**CS**	3-5 days	£81.00	47, 72
Gonorrhoea Culture – Rectal	GONR	**CS**	3-5 days	£81.00	47, 72
Gonorrhoea Culture – Throat	GONT	**CS**	3-5 days	£81.00	47, 72
Gonorrhoea Culture – Urethral	GONU	**CS**	3-5 days	£81.00	47, 72
Granulocyte Immunology	GRIM	A A (or 2 x 6ml) B	2 weeks	£448.00	84
Group B Strep – Vaginal and Rectal (Self-collect)	GBSX	Blue gel Amies swab x2	3-5 days	£55.00	47, 160
Group B Strep – Vaginal and Rectal (STM)	GBSX	2 x **STM**	3-5 days	£55.00	48

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Growth Hormone (Fasting)	GH	B [7,35]	1 day	£62.50	58
Gut Hormone Profile	GUTP	A A (Frozen within 15 minutes) [41]	3 weeks	£367.00	58
H. pylori Antibodies (IgG)	HBPA	B	2 days	£77.00	85
H. pylori Antigen – Stool (RF)	HBAG	**RF**	3 days	£81.00	48
H. pylori Antigen – Stool (Self-collect)	HBAG	Stool/faecal container	3 days	£81.00	48, 160
H. pylori Culture	HPCU	**J**	1 month	£219.50	48
Haematology Profile	PP3	A	1 day	£58.00	41, 45
Haemochromatosis – HFE common variants C282Y + H63D	HMD	A [9]	3 days	£234.50	34, 122
Haemoglobin	HB	A	1 day	£33.50	41
Haemoglobin Electrophoresis	HBEL	A	4 days	£106.00	43
Haemophilia A (Factor VIII deficiency) – CVS	8CVS	**CVS** [40]	3 days	£652.50	122
Haemophilia B (Factor IX deficiency) – CVS	9CVS	**CVS** [40]	3 days	£652.50	122
Haemophilus B Influenzae Antibodies	HINF	B	5 days	£115.00	85
Haemophilus ducreyi by PCR	DUCR	**PCR**	7 days	£173.00	72
Haemosiderin (Urine)	HSID	**EMU**	2 weeks	£112.00	34
Hantavirus Serology	HANV	B [9]	10 days	£138.00	102
Haptoglobin	HAPT	B	5 days	£76.00	34
Hazelnut Components	ZZ11	B	2 days	£171.00	142
HbA1c (Self-collect)	GHB	A (TDL Tiny)	1 day	£55.00	34, 160
HbA1c (Venous)	GHB	A	1 day	£55.00	34
HCG (Oncology)	HCGQ	B	1 day	£60.00	106
HCG (Quantitative) (Self-collect)	QHCG	B (TDL Tiny)	1 day	£61.00	58, 160
HCG (Quantitative) (Venous)	QHCG	B	1 day	£61.00	58
HDL Cholesterol	HDL	B	1 day	£44.50	34
HE4 + ROMA (Earlier Detection of Ovarian Tumour)	HE4	B	1 day	£139.00	106, 108
Hearing Loss NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	122
Hepatitis (Acute) Screen	AHSC	B	1 day	£184.00	95, 104
Hepatitis A (IgM)	HAVM	B	1 day	£51.50	95
Hepatitis A Immunity (IgG/IgM)	HAIM	B	1 day	£54.00	95
Hepatitis A Profile	HEPA	B	1 day	£86.00	72, 95
Hepatitis A RNA by PCR	HAVR	A or B	3 weeks	£245.00	95
Hepatitis A, B & C Profile	ABC	B B	1 day	£301.50	95, 104
Hepatitis B 'e' Antigen and Antibody	HEPE	B	1 day	£124.00	95
Hepatitis B (PCR) Genotype	BGEN	A or B	7 days	£561.00	95
Hepatitis B Core Antibody – IgM	HBCM	B	1 day	£57.50	95
Hepatitis B Core Antibody – Total	HBC	B	1 day	£57.50	95
Hepatitis B DNA (Viral load)	DNAB	A or B	5 days	£286.50	95
Hepatitis B Immunity (IgG) (Self-collect)	THBI	B (TDL Tiny)	1 day	£54.00	95, 160
Hepatitis B Immunity (IgG) (Venous)	HBIM	B	1 day	£54.00	95
Hepatitis B Profile	HEPB	B	1 day	£138.00	96, 104

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Hepatitis B Resistant Mutation	HBRM	A or B	7 days	£360.50	96
Hepatitis B Surface Antigen (Self-collect)	THBA	B (TDL Tiny)	1 day	£52.50	72, 96, 160
Hepatitis B Surface Antigen (Venous)	AUAG	B	1 day	£52.50	72, 96
Hepatitis C Abs Confirmation (RIBA)	RIBA	B	5 days	£188.50	96
Hepatitis C Antibodies (Self-collect)	THCV	B (TDL Tiny)	1 day	£106.00	73, 96, 160
Hepatitis C Antibodies (Venous)	HEPC	B	1 day	£106.00	73, 96
Hepatitis C Antigen (Early detection) (Self-collect)	TCAG	B (TDL Tiny)	1 day	£65.50	73, 96, 160
Hepatitis C Antigen (Early detection) (Venous)	HCAG	B	1 day	£65.50	73, 96
Hepatitis C Genotype	CGEN	A or B	5 days	£573.00	96
Hepatitis C Quantification (Viral Load)	QPCR	A or B	5 days	£249.50	96
Hepatitis Delta Antibody	HEPD	B	5 days	£121.00	96
Hepatitis Delta Antigen	HDAG	B	5 days	£156.00	96
Hepatitis Delta RNA	DRNA	A	5 days	£286.50	96
Hepatitis E IgG/IgM	HBE	B	5 days	£143.50	96
Hepatitis E RNA (PCR)	EHEP	A	2 weeks	£229.50	96
Hepatitis G (PCR)	HEPG	A (Frozen plasma)	2 weeks	£213.50	96
Hereditary Colorectal Cancer NGS Panel	GENE	A A [9,11]	4 weeks	£850.00	122
Hereditary Comprehensive Cancer NGS Panel	GENE	A A [9,11]	5 weeks	£1,250.00	122
Hereditary Neuropathy with Liability to Pressure Palsy – PMP22 deletion analysis	GENE	A [9]	6 weeks	£425.00	122
Herpes Simplex (HSV) 1 & 2 – Genital lesion (Self-collect)	HERS	Aptima multisite swab	5 days	£93.00	73, 102, 160
Herpes Simplex (HSV) 1 & 2 – Oral lesion (Self-collect)	HERS	Aptima multisite swab	5 days	£93.00	73, 102, 160
Herpes Simplex (HSV) 1 & 2 (PCR) (Oral or Genital)	HERS	**PCR**	5 days	£93.00	73, 102
Herpes Simplex I/II (Thin Prep)	HERD	**TPV**	5 days	£93.00	170
Herpes Simplex I/II Antibody Profile (IgG)	HERP	B	2 days	£80.00	102
Herpes Simplex I/II by PCR (Urine)	HERD	**FCRU**	5 days	£93.00	73, 102
Herpes Simplex I/II IgM	HERM	B	2 days	£80.00	102
HFE gene (Haemochromatosis) – common variants C282Y + H63D	HMD	A [9]	3 days	£234.50	43, 122
Hirsutism Profile	HIRP	B	1 day	£185.00	58, 63
Histamine (Blood)	HITT	A (Frozen plasma)	5 days	£138.00	85
Histamine (Urine)	HITU	**RU**	5 days	£138.00	85
Histamine Releasing Urticaria Test	CURT	B	3 weeks	£171.00	85, 141
Histone Antibodies	HISA	B	5 days	£112.00	85
Histopathology					175
Histoplasma Antigen	HANT	**RU**	3 days	£176.00	48
Histoplasmosis	HISP	B	10 days	£151.00	85

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
HIV 1 & 2 Abs/p24Ag (Self-collect)	THIV	B (TDL Tiny)	1 day	£57.50	73, 160
HIV 1 & 2/p24Ag (Venous)	HDUO	B	1 day	£57.50	73
HIV-1 Genotypic Resistance (Integrase)	INTE	A A (2 x 6ml)	21 days	£678.00	101
HIV-1 Genotypic Resistance (RT & Protease)	HIVD	A A (2 x 6ml)	21 days	£678.00	101
HIV-1 Proviral DNA	HIVP	A	7 days	£431.50	101
HIV-1 RNA Viral Load by PCR	HIV1	A A (2 x 6ml)	3 days	£184.00	101
HIV-1 Tropism	TRPM	A A (2 x 6ml)	28 days	£1,038.50	101
HIV-2 RNA by PCR	HIV2	A	10 days	£355.00	101
HIV Confirmation of Positive Screens (3 methodologies)	HIVC	B	1 day	£139.00	101
HIV Rapid RNA HIV-1 QUALITATIVE	LHIV	A (Vacutainer only)	1 day	£184.00	73, 78, 101, 104
HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	A (Vacutainer only)	1 day	£184.00	73, 78, 101, 104
HIV Screening: HIV1 & 2 Abs/p24 Ag (4th Gen)	HDUO	B	1 day	£57.50	101
HIV Therapeutic Drug Monitoring	TDM	**J** [1]	21 days	£277.50	101
HIV/HBV/HCV (Early detection by PCR/NAAT) with Syphilis	STXX	B A 2 x 6mls or 2 x 4mls	3 days	£224.00	73, 77
HIV/HBV/HCV Screen by PCR/ NAAT (10 days post exposure)	STDX	A 2 x 6mls or 2 x 4mls (Vacutainer only)	3 days	£200.50	73, 77, 101-102, 104
HLA A, B, C	14RF	A A	2 weeks	£293.50	61
HLA B*57:01	HL57	A [9]	10 days	£349.00	101
HLA B27	HLAB	A [9]	3 days	£223.00	85
HLA DQ Alpha Antigens	10RF	A A	2 weeks	£192.00	61
HLA DQ Beta Antigens	11RF	A A	2 weeks	£192.00	61
HLA DR Antigens	9RF	A A	2 weeks	£236.00	61
HLA-C	26RF	A A	2 weeks	£191.50	61
Homocysteine (Quantitative)	HOMO	B [17] or A (Plasma)	1 day	£97.00	34
Homocysteine (Urine)	HCYS	**CU**	2 weeks	£136.00	34
Homovanillic Acid (HVA)	HVA	**PU**	5 days	£106.00	34
Horse Components	ZZ38	B	2 days	£40.50	142
House Dust Mite Components	ZZ12	B	2 days	£136.00	142
HPV (19 high risk DNA subtypes, reported as types 16, 18 or Others) (Self-collect)	HPVY	Qvintip vaginal swab	3 days	£73.50	73, 160, 173
HPV (28 individually typed low risk (LR) & high risk (HR) DNA subtypes and reflexed mRNA for types 16, 18, 31, 33 and 45)	HPVT	**TPV**	5 days	£146.00	73, 172
HPV (28 individually typed LR & HR DNA subtypes)	HP20	**TPV**	3 days	£115.00	73, 172
HPV (A group of 14 HR mRNA types)	HPVH	**TPV**	3 days	£73.50	73, 172
HPV (Individually typed high risk DNA subtypes) (Self-collect)	HPVZ	Qvintip vaginal swab	3 days	£115.00	73, 160, 173
HRT Profile 1	HRT	B	1 day	£113.00	58, 63

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
HRT Profile 2	HRT2	B G	1 day	£172.00	58, 63
HTLV 1 & 2 Abs. (Human T Lymphotropic Virus Type I-II)	HTLV	B	1 day	£66.50	101
HTLV by PCR	HTLP	A	21 days	£355.00	101
Hughes Syndrome	LUPA	B C C [4,18]	2 days	£116.50	42
Human Herpes Virus – 6 by PCR	HHV6	A	5 days	£181.50	103
Human Herpes Virus – 8 (IgG)	HHV8	B	10 days	£103.50	103
Human Herpes Virus – 8 by PCR	HV8D	A	5 days	£205.00	103
Human Parvovirus B19 – DNA	PCRP	A	2 weeks	£213.50	103
Huntington Disease – HD gene repeat analysis PCR	GENE	A A [9,11]	5 weeks	£350.00	123
HVS	HVS	**STM/CS**	2-4 days	£81.00	48
Hyaluronic Acid	AHT	B	1 week	£73.50	34
Hydroxybutyrate Dehydrogenase	HBD	B (Frozen)	1 week	£90.00	34
Hydroxyprolene	UHYD	**CU**	2 weeks	£99.50	34
Hyperinsulinism NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	123
Hyperparathyroidism – CASR sequencing	GENE	A [9]	6 weeks	£750.00	123
IDH1/2 Screening Assay	GENE	A	48 hours	£723.00	123
IgE (Total)	IGE	B	1 day	£60.00	85
IGF-1 (Somatomedin)	SOMA	B (Frozen) [4,7]	1 day	£98.50	58
IGF-BP3	IGF3	B (Frozen) [4]	5 days	£120.00	58
IgG Subclasses	IGSC	B	5 days	£243.00	34
IgVH variant analysis for CLL	IGMU	A	4 weeks	£444.00	123
Imipramine	IMIP	A [4]	4 days	£102.50	138
Immune Function Evaluation (Total)	TIE	A + B [5,10]	7 days	£369.50	41
Immune-Complexes	IMCP	B	5 days	£106.00	85
Immunofluorescence in Skin Biopsies	IHCS	Skin sample in Michels solution	2 weeks	£533.50	85
Immunoglobulin A	IGA	B	1 day	£43.50	34
Immunoglobulin D	IGD	B	5 days	£75.00	34
Immunoglobulin E – Total	IGE	B	1 day	£60.00	34
Immunoglobulin G	IGG	B	1 day	£43.50	34
Immunoglobulin M	IGM	B	1 day	£43.50	34
Immunoglobulins (IgG, IgM, IgA)	IMM	B	1 day	£87.00	34, 85
Impotence Profile	IMPO	A B B G	3 days	£245.00	58, 63
Individual Semen Parameters* **	SPOD	**Semen** [1]	1 day	£80.00	68
Inherited bleeding and platelet disorders (R90)	R90U	A A	12 weeks	£1,138.50	123
Inhibin A	INIA	B	1 month	£169.00	58
Inhibin B	INIB	B (Day 3 of cycle, frozen)	5 days	£150.00	58
INR	PTIM	C [18]	1 day	£30.50	41
Insect/Worm/Ova/Cysts	FLEA	Send Specimen [9,14]	5 days	£105.00	92
Insulin	INSU	B [4,7]	1 day	£60.00	58
Insulin Antibodies	INAB	B	5 days	£101.00	85
Insulin-Like Growth Factor 2	IGF2	B [6]	1 month	£321.50	34

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Intellectual Disability NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	123
Interleukin 1 Beta	ILB	B (Frozen) [4,7]	1-2 weeks	£227.50	85
Interleukin 2	IL2	B (Frozen) [4,7]	1-2 weeks	£227.50	85
Interleukin 4	IL4A	B (Frozen) [4,7]	1-2 weeks	£227.50	85
Interleukin 6	IL6	B (Frozen) [4,7]	1-2 weeks	£227.50	85
Interleukin 8	IL8	B (Frozen) [4,7]	1-2 weeks	£357.00	85
Interleukin 10	IL10	B (Frozen) [4,7]	1-2 weeks	£377.00	85
Interleukin 28b Genotype	IL28	A	2 weeks	£437.00	85
Intrinsic Factor Antibodies	IFAB	B	2 days	£108.50	85
Iodide – Urine	UIOD	RU	1 week	£139.00	34
Iodine – Serum	IODI	B	1 week	£116.50	34
Ionised Calcium	ICPA	B	5 days	£54.00	34
Iron (TIBC included) (Venous)	FE	B	1 day	£33.50	34
Iron Overload Profile	IOP	A B [9]	3 days	£301.50	34, 39, 123, 130
Iron Status Profile (Venous)	ISP	B	1 day	£97.00	34, 39
ISAC Panel (Self-collect)	ISAC	B (TDL Tiny)	3 days	£331.00	141, 160
ISAC Panel (Venous)	ISAC	B	3 days	£331.00	141, 146
Islet Cell Antibodies	ICAB	B	3 days	£71.50	85
IUCD for Culture	IUCD	Send Device	11-12 days	£81.00	48
JC Polyoma Virus by PCR	JCPV	A / CSF	5 days	£236.00	103
Joubert/Meckel-Gruber Syndrome NGS Panel	GENE	A [9]	6 weeks	£1,600.00	123
Kallmann Syndrome NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	123
Kennedy Disease (Spinal Bulbar Muscular Atrophy) – AR repeat expansion	GENE	A [9]	5 weeks	£300.00	123
Ketamine Screen	KETA	RU	7-10 days	£154.00	163
Kidney/Urinary Tract Comprehensive Cancer NGS Panel	GENE	A A [9,11]	4 weeks	£1,100.00	123
KIR (Killer-like Immunoglobulin-like Receptors) Genotyping	17RF	A A A	2-3 weeks	£388.00	61
Kiwi Components	ZZ32	B	2 days	£66.50	142
Lactate (Plasma)	LACT	G [16]	1 day	£82.50	34
Lactate Dehydrogenase (LDH)	LDH	B	1 day	£36.00	34
Lactate Pyruvate Ratio	LPR	J [1]	4-6 weeks	£145.00	34
Lactose Tolerance Test	LTT	By appointment only	1 day	£152.50	34, 137
Lamotrigine	LAMO	B [4]	5 days	£121.00	138
Latex Components	ZZ13	B	2 days	£301.50	142
LDL7 Subfractions	LDL7	B	10 days	£259.00	34
Lead (Blood)	LEAD	A	5 days	£62.50	35, 165
Lead (Urine)	URPB	RU	5 days	£62.50	35, 165
Leber's Hereditary Optic Neuropathy – m.3460G>A + m.11778G>A + m.14484T>C common variants	GENE	A [9]	6 weeks	£420.00	123

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Legionella Antibodies	LEGO	B	3 days	£83.50	85
Legionella Urine Antigen	LEGA	Urine with boric acid	1 day	£104.00	48, 85
Leishmania Antibodies	LEIS	B	5 days	£66.50	92
Leptin	LEPT	B (height & weight required)[19]	5 days	£163.50	35
Leptospirosis (Weil's Disease) Abs (IgM)	LEP	B	5 days	£124.00	85
Leucocyte Antibody Detection Panel FEMALE	8RF	B	1 week	£236.00	61
Leucocyte Antibody Detection Panel MALE	7RF	H H H [6,34]	1 week	£0.00 (No charge)	61
Leukaemia (Rapid Acute) DNA and RNA NGS Panel	ALRP	A (3mL minimum) or bone marrow aspirate sample	3 days	£717.00	124, 131
Leukaemia Fusion Gene Screening Assay (Q30)	LMPX	A	24 hours	£602.50	124
Leukaemia Immunophenotyping	LYPT	A [4,5]	5 days	£579.50	44
Leukaemia/Lymphoma RNA Sequencing (Fusion Gene and SNV/Indel) Panel	PHFP	A	2 weeks	£937.50	124, 131
Leukotriene E4	LTE4	**CU** (Frozen)	3 weeks	£448.00	85
Levetiracetam (Keppra)	LEVE	B [4]	3 days	£128.50	138
Li-Fraumeni Syndrome (p53-related cancer predisposition) – TP53 sequencing + MLPA	GENE	A [9,11]	6 weeks	£735.00	124
Limb-Girdle Muscular Dystrophy (LGMD) NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	124
Lipase (Self-collect)	LIPA	B (TDL Tiny)	1 day	£57.50	35, 160
Lipase (Venous)	LIPA	B	1 day	£57.50	35, 40
Lipid Profile (Self-collect)	LIPP	B (TDL Tiny)	1 day	£55.50	35, 160
Lipid Profile (Venous)	LIPP	B	1 day	£55.50	35
Lipid Transfer Proteins	ZZ23	B	2 days	£239.00	142
Lipocalins	ZZ28	B	2 days	£103.50	142
Lipoprotein (a) (Self-collect)	LPOA	B (TDL Tiny)	1 day	£61.00	35, 160
Lipoprotein (a) (Venous)	LPOA	B	1 day	£61.00	35
Lipoprotein Electrophoresis	LEL	B	5 days	£86.00	35
Lissencephaly NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	124
Lithium (take 12 hours after dose)	LITH	B	1 day	£51.50	35, 138
Liver Fibrosis (Enhanced Liver Fibrosis ELF)	ELF	B	5 days	£204.00	35
Liver Fibrosis Fibrotest	FIBT	B	2 weeks	£286.50	35
Liver Function Tests (Excluding AST) (Self-collect)	TLFT	F (TDL Tiny) and B (TDL Tiny)	1 day	£55.50	35, 160
Liver Function Tests (Venous)	LFT	B	1 day	£55.50	35, 40
Liver Immunoblot	LIVI	B	3 days	£185.00	85
Liver Kidney Microsomal Antibodies	LKM	B	2 days	£54.00	85
Long QT Syndrome/Brugada Syndrome NGS Panel	GENE	A A [9]	4-6 weeks	£1,100.00	124
Lorazepam	LORA	A [4]	10 days	£71.50	138
Lp-PLA2 (PLAC) Test	PLA2	B	2 days	£124.00	35
LSD	LSD	**RU**	5 days	£120.00	163

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Lung Disorders NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	124
Lupus Anticoagulant and Anticardiolipin Abs	LUPA	B C C [4,18]	2 days	£116.50	42, 85
Lupus Anticoagulant only	LUPC	C C [9,18]	2 days	£76.00	42
Luteinising Hormone (LH) (Self-collect)	LH	B (TDL Tiny) or F (TDL Tiny)	1 day	£55.00	58, 160
Luteinising Hormone (LH) (Venous)	LH	B	1 day	£55.00	58
Lyme Disease (Borrelia Abs) IgG, IgM	BORR	B [9,14]	2 days	£94.50	85
Lyme Disease (Borrelia Abs) IgM	BORM	B	2 days	£73.50	85
Lymphocyte Subsets (CD3/CD4/CD8)	LYSS	A	1 day	£257.00	41, 101
Lymphogranuloma Venerium (LGV) – Rectal (Self-collect)*	LGVP	Aptima multisite swab	1-2 weeks	£119.00	73, 160
Lymphogranuloma Venerium (LGV) (PCR)	LGVP	PCR* [42]	1-2 weeks	£119.00	73
Lynch Syndrome (HNPCC) NGS Panel	GENE	A [9]	4 weeks	£850.00	124
Lysosomal Enzyme Screen	LE	J [1]	2 months	£779.50	35
Lysosomal Storage Disorders NGS Panel – full gene sequencing	LSDS	A A [9]	4-6 weeks	£937.50	124, 131
Lysozyme	LYSO	B	5 days	£90.00	35
Macrolide Resistance Test (Mgen)	MGR	FCRU / PCR	1-2 weeks	£200.50	73
Macroprolactin	PRLD	B	4 days	£260.00	58
Magnesium (Serum)	MG	B	1 day	£43.50	35, 165
Magnesium (Urine)	URMG	PU	1 day	£48.00	35, 165
Magnesium (Whole blood)	RCMG	A or H	4 days	£97.00	152
Malarial Antibodies (Pl. falciparum)	MALA	B [9,14]	5 days	£77.00	92
Malarial Antibodies (species specific)	MALS	B [9,14]	10 days	£99.50	92
Malarial Parasites	MALP	A [4,9,14]	STAT	£62.50	41
Malarial Parasites (visa, non-urgent)	MP48	A	2 days	£62.50	41
Male Genetic Reproductive Profile	GRP	A H [9]	10-15 days	£936.50	124, 130
Male Hormone Profile	MIPR	B	1 day	£184.00	59, 63
Manganese (Serum)	MANG	B	5 days	£80.00	35, 165
Marfan Syndrome – FBN1 sequencing + deletions/duplications	GENE	A [9]	6 weeks	£750.00	124
Marfan Syndrome and Thoracic Aortic Aneurysm and Dissection NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	124
Maturity-Onset Diabetes of the Young (MODY) Diabetes NGS Panel	GENE	A [9]	12 weeks	£1,260.00	124
MBOCA in Urine	MBOC	RU	10 days	£120.00	166
Mean Cell Volume (MCV)	MCV	A	1 day	£36.00	41
Measles Antibodies (IgG) Immunity	MEAS	B	1 day	£76.00	95, 103
Measles Antibodies (IgM)	MEAM	B [9]	2 days	£76.00	95, 103
Measles PCR	MEAP	Buccal swab	48 hours	£147.00	103
Measles, Mumps, Rubella (MMR)	MMR	B	1 day	£162.50	95
Meckel-Gruber/Joubert Syndrome NGS Panel	GENE	A [9]	6 weeks	£1,600.00	124
Melanoma Comprehensive Cancer NGS Panel	GENE	A A [9,11]	4 weeks	£1,100.00	124
Melatonin (Serum)	MEL	B (Frozen)	5 days	£102.50	59

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Melatonin (Urine)	UMEL	**CU** [13]	2 weeks	£145.00	59
Meningococcal Serology (only serogroup C)	MENI	B	6 weeks	£102.50	85
Menopausal Profile (FSH, LH, TOES, TSH, FT4) (Self-collect)	TMEN	F (TDL Tiny) and B (TDL Tiny)	1 day	£150.00	59, 160
Menopause Profile (Venous)	MENO	B	1 day	£150.00	59, 63
Mercury (Blood)	MERC	A or H	5 days	£62.50	35, 165
Mercury (Urine)	URHG	**RU** [1]	5 days	£83.50	35, 165
MERS Coronavirus Test	MERS	**J**	1 day	£185.00	103
Metabolic Syndrome Profile	METS	A B B G	9 days	£299.50	59, 63
Metanephrines (Plasma)	PMET	A (Frozen plasma, must be frozen within 2 hours)	7 days	£180.50	59
Metanephrines (Urine)	UMEX	**PU** (collect on acid) [1]	5 days	£150.00	59
Methaqualone	METQ	**RU**	5 days	£42.00	35
Methotrexate	METX	B	2 days	£146.00	138
Methylmalonic Acid – Serum	MMAS	B	5 days	£233.50	35
Methylmalonic Acid – Urine	MMA	**CU**	2 weeks	£146.00	35
Metronidazole Level	METR	B [4]	10 days	£102.50	137
Microfilaria Blood Film	MICF	A	STAT	£38.00	41
Mineral Screen	MINE	B K	5 days	£198.50	152-153
Mineral Screen (Whole blood)	RMIN	H H	5 days	£216.00	152-153
Mineral Screen and Industrial Heavy Metal Screen (Trace Metals)	TRAC	A B H K	7-10 days	£313.50	152-153
Miscarriage/Thrombotic Risk Profile	PROP	A A B C C C [18]	5 days	£760.00	43, 45
Mitochondrial Antibodies	AMIT	B	3 days	£54.00	85
Mitochondrial Antibodies M2	MTM2	B	2 days	£237.00	85
Mitochondrial Genome Sequencing	GENE	A [9]	6 weeks	£1,210.00	125
Molybdenum (Serum)	MOLY	B	5 days	£78.50	166
Motor Neurone Disease (Amylotrophic Lateral Sclerosis) NGS Panel	GENE	A A [9]	5 weeks	£1,600.00	125
MPOX (Virus) – Lesion (Self-collect)	MPXV	Aptima multisite swab	2 days	£132.50	73, 160
MRSA (Rapid PCR) one swab per site	MRSA	Blue liquid Amies swab	1 day	£77.50	48
MRSA (Rapid PCR) one swab per site x 2	MRS2	Blue liquid Amies swab x 2	1 day	£154.50	48
MRSA Culture (Self-collect) – Nose/Groin	MRW2	Purple liquid Amies swab x2	2 days	£110.50	48, 160
MRSA Culture one swab per site	MRSW	Blue liquid Amies swab	2 days	£55.50	48
MRSA Culture one swab per site x 2	MRW2	Blue liquid Amies swab x 2	2 days	£110.50	48
MRSA PCR (Self-collect) – Nose/Groin	MRS2	Purple liquid Amies swab x2	1 day	£154.50	48, 160
MTHFR – common C677T + A1298C variants	MTHF	A [9]	5 days	£240.50	125
Mucopolysaccharides	MPS	**RU** (Frozen)	3 weeks	£140.00	35
Mucopolysaccharidosis NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	125
Multiple Endocrine Neoplasia Type 1 – full MEN1 sequencing	GENE	A [9,11]	6-7 weeks	£800.00	125
Multiple Endocrine Neoplasia Type 2 – RET gene hotspot sequencing	GENE	A [9,11]	6-7 weeks	£700.00	125

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Mumps Antibodies (IgG)	MUMP	B	1 day	£76.00	95, 103
Mumps Antibodies (IgM)	MUMM	B	1 day	£76.00	95, 103
Myasthenia Gravis Evaluation	MGE	B	5 days	£173.00	85
Mycophenolic Acid (Cellcept)	MYCP	A	5 days	£146.00	138
Mycoplasma genitalium (Thin Prep)	MGEN	TPV	2 days	£93.00	170
Mycoplasma genitalium by PCR	MGEN	FCRU / PCR / TPV	2 days	£93.00	73
Mycoplasma genitalium by PCR – Urine and Vaginal (Self-collect)	MGEN	Aptima urine or multisite swab	2 days	£93.00	74, 161
Mycoplasma genitalium Resistance – Urine or Vaginal (Self-collect)	MGR	Aptima urine or multisite swab	1-2 weeks	£200.50	74, 161
Mycoplasma genitalium/Ureaplasma (Thin Prep)	MUPC	TPV	2 days	£120.00	170
Mycoplasma genitalium/Ureaplasma by PCR	MUPC	FCRU / PCR / TPV	2 days	£120.00	74
Mycoplasma pneumoniae IgM and IgG	MYCO	B	2 days	£67.50	103
Mycoplasma species – DNA	MPCR	A	5 days	£226.50	103
Myelin Associated Glycoprotein Antibodies	MAG	B	5 days	£324.50	86
Myelin Basic Protein Antibodies	MBPA	B	2 weeks	£106.00	86
Myeloid Gene Panel	MVPS	A (3mL minimum) or bone marrow aspirate sample	2 weeks	£661.50	125, 131
Myeloma Screen CHANGE	MYEL	A B G	5 days	£160.00	35, 40
Myeloperoxidase Antibodies	MPO	B	2 days	£61.00	86
Myeloproliferative Neoplasm NGS Screening Panel	MPNS	A (3mL minimum) or bone marrow aspirate sample	1 week	£551.50	125, 131
Myocardial Antibodies	MYO	B	1 week	£82.50	86
Myoglobin (Serum)	SMYO	B	1 day	£76.00	35
Myoglobin (Urine)	UMYO	RU	5-10 days	£107.00	35
Myositis Panel	MYOS	B	3 days	£120.00	86
Myotonic Dystrophy Type 1 – DMPK repeat PCR	GENE	A [9]	5 weeks	£350.00	125
Myotonic Dystrophy Type 2 (PROMM) – ZNF9 repeat PCR	GENE	A [9]	6 weeks	£350.00	125
Mysoline (Primidone)	PRIM	B [4]	3 days	£77.00	138
Narcolepsy (HLA DQB1*06:02)	GENE	A [9]	3 weeks	£349.00	125
Natural Killer Profile 2	NKP2	A [10]	2 days	£282.50	41, 45
Needle Stick Injury Profile	NSI	B B	1 day	£192.00	103, 105
Nephrotic Syndrome, Steroid-Resistant NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	125
Nervous System/Brain Cancer NGS Panel	GENE	A A [9,11]	4 weeks	£1,100.00	125
Neurofibromatosis Type 1 – NF1 + SPRED1 sequencing + deletions/duplications	GENE	A A [9,11]	8 weeks	£1,230.00	125
Neurological Viral Screen	NVIR	B B	2 days	£190.00	103, 105
Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2)	NEUR	B	10 days	£311.00	86
Neurone Specific Enolase	NSE	B	5 days	£184.00	106
Newborn Screening Panel	GUTH	J [1]	2 weeks	£190.00	35

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Nickel (Serum)	NICK	B	5 days	£78.50	35, 165
Nickel (Urine)	NICU	RU	4 weeks	£83.50	35, 165
NK (CD69) and NK Cytotoxicity	69C	H H H*	Send Mon-Thurs only	£783.00	62
NK (CD69) Cell Assay	CD69	H*	Send Mon-Thurs only	£282.50	62
NK Assay Follow-Up Panel	5RF	H H H	1 week	£420.00	61
NK Assay Panel + Intralipids	16RF	H H H	1 week	£616.50	61
NK Assay/Cytotoxicity Panel	4RF	H H H	1 week	£495.00	61
NK Cytotoxicity Assay	HSNK	H H H*	Send Mon-Thurs only	£661.00	62
NK Cytotoxicity with suppression with steroid, IVIg and intralipin, and NK (CD69) cell assay	69CI	H H H*	Send Mon-Thurs only	£920.50	62
NK Cytotoxicity with suppression, steroid, IVIg & Intralipin	NKCY	H H H*	Send Mon-Thurs only	£843.50	62
NMDA Receptor Antibodies	NMDA	B	3 weeks	£228.50	86
Non-Invasive Prenatal Testing (NIPT) – common aneuploidy screening from maternal blood	NIPT	J / Special tube[1]	2-4 days	£295.00	126, 136
Noonan Syndrome and RASopathies NGS Panel	GENE	A A[9]	6 weeks	£1,600.00	126
Nucleic Acid Antigen Antibodies	DNA	B	2 days	£80.00	86
Oestradiol-17-Beta (Self-collect)	TOES	F (TDL Tiny)	1 day	£55.00	59, 161
Oestradiol-17-Beta (Venous)	OEST	B	1 day	£55.00	59
Oestriol (Estriol)	E3	B B	4 days	£107.00	59
Oestrone	E1	B B	4 days	£107.00	59
Olanzapine	OLAN	A[4]	5 days	£128.50	139
Oligoclonal Bands	CSFO	2ml CSF + B	5 days	£260.00	86
Oligosaccharides	UOLI	RU	6 weeks	£239.00	36
Olive Components	ZZ14	B	2 days	£70.50	142
Omega 3/Omega 6 (Self-collect)	OMG3	A (TDL Tiny)	5 days	£130.50	152, 154, 161
Omega 3/Omega 6 (Venous)	OMG3	A[4]	5 days	£130.50	152, 154
Opiate Screen (Urine)	UOPI	RU	2 days	£60.00	163
Orosomucoid (A1AG – Alpha 1 Glycoprotein)	OROS	B (Frozen)	5 days	£170.00	36
Osmolality (Serum)	OSMO	B	1 day	£54.00	36
Osmolality (Urine)	ROSM	RU	1 day	£51.50	36
Osteocalcin	OST	B (Frozen)[4]	4 days	£216.00	59, 106
Osteogenesis Imperfecta NGS Panel	GENE	A A[9]	6 weeks	£1,600.00	126
Osteoporosis Screen	OPS	B B	4 days	£178.00	36, 40
Ovarian Autoantibodies	OVAB	B	3 days	£77.00	86
Ovarian Cancer NGS Panel	GENE	A A[9,11]	4 weeks	£850.00	126
Oxalate (Plasma)	POXA	A (Frozen)	7 days	£106.00	36
Oxalate (Urine)	UOXA	PU	5 days	£90.00	36
Oxidative Stress in Semen (ROS + MIOXSYS)	SROS	Semen[1]	1 day	£255.00	68
P2Y12 Receptor Platelet Function Analysis (Clopidogrel Resistance)	P2Y	J[1]	1 day	£110.50	43

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
p53-related cancer predisposition (Li-Fraumeni Syndrome) – TP53 sequencing + MLPA	GENE	A [9,11]	6 weeks	£735.00	126
PAI-1 4G/5G Polymorphism	PAIP	A	10 days	£207.50	41, 61
Pancreatic Cancer NGS Panel	GENE	A A [9,11]	4 weeks	£1,100.00	126
Pancreatic Peptide	PP	**J**	4 weeks	£232.00	36
Paracetamol	PARA	B	1 day	£121.00	139
Paragomius Serology	PRGM	B	2 weeks	£142.50	86
Parathyroid Antibodies	PTHA	B	3 weeks	£98.50	86
Parathyroid Hormone (Whole)	PTHI	A [4]	1 day	£125.50	59
Parathyroid Related Peptide	PTRP	2ml A Plasma frozen (Freeze immediately) [1]	2 weeks	£164.50	36
Parvalbumins	ZZ29	B	2 days	£103.50	142
Parvovirus Antibodies (IgG)	PARG	B	2 days	£85.00	103
Parvovirus Antibodies (IgM)	PARV	B	2 days	£94.50	103
Parvovirus IgG/IgM Abs	PARP	B	2 days	£97.00	103
Paul Bunnell (Monospot)	PAUL	A or B	1 day	£37.00	41
Peach Components	ZZ15	B	2 days	£136.00	142
Peanut Components	ZZ16	B	2 days	£203.00	142
Pemphigus/Pemphigoid Autoantibodies	SKAB	B	2 days	£65.50	86
Pertussis (Whooping Cough) Antibodies	PERS	B	5 days	£128.50	86, 95
Pertussis (Whooping Cough) by PCR	PERP	**Pernasal or dry swab**	2-3 days	£174.00	86
PEth (Phosphatidylethanol) (Self-collect)	PETH	A (TDL Tiny)	5-7 days	£113.00	36, 161, 163
PEth (Phosphatidylethanol) (Venous)	PETH	A	5-7 days	£113.00	36, 163
Phencyclidine (PCP)	DUST	**RU**	5 days	£82.50	36
Phenobarbitone	PHB	B	1 day	£65.50	139
Phenytoin (Epanutin)	PHEN	B	1 day	£65.50	139
Phosphate	PHOS	B	1 day	£28.00	36
Phosphate (24 hour Urine)	UPH	**PU**	1 day	£43.50	36
Pituitary Antibodies	PITU	B [4]	1 month	£103.50	86
Pituitary Function Profile	PITF	B B [7]	1 day	£204.00	59, 64
PLAC Test (Lp-PLA2) (Self-collect)	PLA2	B (TDL Tiny)	2 days	£124.00	36, 161
PLAC Test (Lp-PLA2) (Venous)	PLA2	B	2 days	£124.00	36
Plasminogen	PLAS	C (Frozen plasma) [4]	5 days	£90.00	36
Plasminogen Activator Inhibitor – 1	PAI1	C (Frozen plasma)	2 weeks	£274.00	36
Platelet Aggregation Studies	PLAG	**J**** [9]	3 days	£335.00	43
Platelet Function Test Screen – PFA-100/200	PFAT	**J**** [1]	1 day	£165.50	43
Pleural Fluid for Culture	FLUP	**SC**	7 days	£115.50	48
Pneumococcal Antibodies – Serotype Specific	PASS	B	5 weeks	£272.00	86
Pneumococcal Antibody Screen	PNEU	B	5 days	£113.00	86, 95
Pneumococcal Antigen	PNAG	Urine with boric acid	1 day	£105.00	48
Pneumocystis jiroveci (PJP) PCR	MPCP	**SC BAL** ‡‡	2-3 days	£105.00	48

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Pneumonia (Atypical) Screen	APS	B	3 days	£140.00	103
Polcalcins	ZZ25	B	2 days	£103.50	143
Polycystic Ovary Syndrome Profile	PCOP	A B B B G [7]	5 days	£578.50	59, 64
Polycystic Ovary Syndrome SHORT	PCOS	A B G	1 day	£184.00	59, 64
Porphyrin (Blood)	PORP	A [3]	15 days	£229.50	36
Porphyrin (Stool)	FPOR	**RF** [3]	3 weeks	£131.50	36
Porphyrin (Urine)	RPOR	**RU** [3]	3 weeks	£169.00	36
Porphyrin Full Screen (Total: Urine, Stool, Blood)	PORS	A **RU**, **RF** [3]	3 weeks	£521.50	36, 40
Post-Travel Screen 1 (Up to 6 weeks post travel)	PTS	A A B G [14]	10 days	£269.00	92-93
Post-Travel Screen 2 (6 weeks after travel)	PTS2	A A B B B G [14]	10 days	£506.00	92-93
Postnatal SNP Array CGH	CGH	A H [9]	10 days	£822.50	132
Potassium	K	B	1 day	£28.00	36
PR-10 Proteins	ZZ22	B	2 days	£274.00	143
Pre-Travel Screen (DVT)	DVT1	A A B [9]	5 days	£286.50	42, 45, 92, 127
Prealbumin	PALB	B	3 days	£90.00	141
Pregnancy (Serum) [Quantitative]	QHCG	B	1 day	£61.00	36, 59
Pregnancy Test (Urine)	PREG	**RU**	1 day	£40.50	36
Pregnenolone	PREN	B	15 days	£124.00	59
Prenatal SNP Array CGH	CGH	**Amniotic fluid**, **CVS** or **POC** [9]	10 days	£822.50	132
Primidone (Mysoline)	PRIM	B [4]	3 days	£77.00	139
Procalcitonin	PCAL	B (Frozen) [4,7]	1 day	£114.00	36
Procollagen 1 Peptide N-Terminal (NTX)	P1NP	B	5 days	£300.50	36
Procollagen 3 Peptide	PRCO	B	5 days	£167.50	36
Products of Conception (BOBs + Culture)	PBK	**Placental Sample** [1,9]	10-25 days	£658.00	127, 130
Profilins	ZZ24	B	2 days	£270.50	143
Progesterone (Self-collect)	PROG	B (TDL Tiny) or F (TDL Tiny)	1 day	£55.00	59, 161
Progesterone (Venous)	PROG	B	1 day	£55.00	59
Proinsulin	PROI	A (Frozen plasma) [4]	5 days	£249.50	59
Prolactin (Macro)	PRLD	B	4 days	£260.00	59
Prolactin (Self-collect)	PROL	B (TDL Tiny) or F (TDL Tiny)	1 day	£55.00	59, 161
Prolactin (Venous)	PROL	B	1 day	£55.00	59
Propanalol	PRO	B [4]	7 days	£115.00	139
Propoxyphene	DPRO	**RU**	5 days	£115.00	36
Prostate Cancer NGS Panel	GENE	A A [9,11]	4 weeks	£850.00	127
Prostate Profile (Total & Free PSA)	PR2	B	1 day	£97.00	106, 108
Prostate Specific Antigen (Total) (Self-collect)	PSPA	B (TDL Tiny)	1 day	£71.50	106, 161
Prostate Specific Antigen (Total) (Venous)*	PSPA	B	1 day	£71.50	106
Prostatic Acid Phosphatase	PACP	B (Frozen)	3 days	£62.50	36
Protein (Urine)	UPRT	**CU**	1 day	£42.00	36
Protein 14.3.3 (Creutzfeldt–Jakob Disease)	CJD	**J**	5 weeks	£548.00	36
Protein C Activity	PRC	C (Frozen) [4,9,18]	3 days	£70.50	43
Protein Electrophoresis incl. immunoglobulin	PRTE	B	5 days	£113.00	36

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Protein S Activity	PS1	C (Frozen)[4,9,18]	5 days	£68.50	43
Protein S Free Ag	FPRS	C (Frozen)[4,9,18]	3 days	£70.50	43
Protein Total (Blood)	PROT	B	1 day	£28.00	37
Protein/Creatinine Ratio (Urine)	UCPR	**RU**	1 day	£77.00	37
Proteinase 3 Ab	PR3	B	2 days	£60.00	86
Prothrombin Time	PTIM	C[18]	1 day	£30.50	42
Purkinje Cell Antibody (Hu and Yo)	PURK	B	10 days	£66.50	86
Pyruvate Kinase (M2-PK)	M2ST	**RF**[4]	5 days	£99.50	106
Pyruvate Kinase (M2-PK)	M2PK	A (Frozen plasma)[7]	5 days	£99.50	106
Q Fever (C Burnetti) Antibodies	QFEV	B[9]	10 days	£72.50	86
QFIT/Calprotectin Profile (Combined) (QFIT)	QCAL	**QFIT**	5 days	£154.50	36
QFIT/Calprotectin Profile (Combined) (Self-collect)	QCAL	**QFIT** sample collection device	5 days	£154.50	37, 161
Quantitative Faecal Immunochemical Test (QFIT)	QFIT	**QFIT**	1 day	£60.00	37
Quantitative Faecal Immunochemical Test (QFIT) (Self-collect)	QFIT	**QFIT** sample collection device	1 day	£60.00	37, 161
Rabies Antibody	RABI	B	20 days	£161.00	95
Rapid Strep PCR (incl. m/c/s)	RAPS	Blue liquid Amies swab**	1-3 days**	£83.50	48
Rapid Xpert HIV-1 RNA Qualitative – Early Detection from 10 days	LHIV	A (Vacutainer only)	1 day	£184.00	74
Rapid Xpert HIV-1 RNS Viral Load – Rapid Testing for HIV-Positive Patient Prognosis and Response To Antiretroviral Therapy	RHIV	A (Vacutainer only)	1 day	£184.00	74
Recurrent Miscarriage Profile (female)	RMP	A A B C C C H[9,18]	10-15 days	£1,110.50	127, 130
Renal Calculi Screen (Metabolic)	RSPR	**J**[6]	5 days	£185.00	37
Renal Stone Analysis	RSTA	**STONE**	10 days	£191.00	37
Renin	RENI	A (Frozen plasma)[36]	5 days	£134.00	59
Reproductive Immunophenotype Panel	3RF	H H H	1 week	£420.00	61
Respiratory PCR Panel (COVID-19, Flu A/B and RSV) (PCR)	FLU4	**PCR** nasopharyngeal swab	2 days	£234.50	103-104,
Respiratory PCR Panel (COVID-19, Flu A/B and RSV) (Self-collect)	FLU4	Aptima multisite swab of nose/throat	2 days	£234.50	103, 161
Reticulocyte Count	RETC	A	1 day	£33.50	42
Retinol Binding Protein	RBP	B	3 days	£66.50	37
Retrograde Ejaculation	RTRO	Contact lab	2 days	£98.50	68
Reverse T3	RT3	B[7,37]	15 days	£136.00	59
Rheumatoid Factor (Latex Test)	RF	B	3 days	£36.00	86
Rheumatology Profile 1 (Screen)	RH	A B	2 days	£143.50	86, 90
Rheumatology Profile 2 (Connective tissue)	RH2	A A B B	3 days	£424.00	86, 90
Rheumatology Profile 3 (Rheumatoid/Basic)	RH3	A B	2 days	£207.50	86, 90
Rheumatology Profile 4 (Systemic Lupus)	RH4	A B B	2 days	£319.00	86, 90
Rheumatology Profile 5 (Mono Arthritis)	RH5	A A B B	3 days	£304.50	86, 90
Rheumatology Profile 6 (Rheumatoid Plus)	RH6	B	3 days	£106.00	86, 90

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Rheumatology Profile 7 (Sjogren's Syndrome)	RH7	B	15 days	£106.00	86, 90
Rickettsial Species Antibody Profile	RICK	B	7 days	£116.50	86, 92
Risperidone	RISP	A [4]	7 days	£197.50	139
RNA Polymerase Antibodies	RNAP	B	3 days	£71.00	86
Rotavirus in Stool by PCR	ROTA	RF	1 day	£104.00	103
RPR (Syphilis)	RPR	B	2 days	£40.50	74, 86
Rubella Antibody (IgG)	RUBE	B	1 day	£56.50	95, 103
Rubella Antibody (IgM)	RUBM	B	1 day	£80.00	95, 103
Rubella Avidity	RUAV	B	1 week	£151.00	103
Rubella PCR	RUBP	A / Amniotic Fluid	5 days	£180.50	95
S100 Malignant Melanoma	S100	B	4 days	£138.00	106
Saccharomyces Cerevisiae Antibodies	ASCA	B	2 weeks	£139.00	86
Salicylates	SALI	B	1 day	£58.50	37
Salivary Duct Antibodies	SAB	B	15 days	£62.50	86
Schistosoma (Urine)	USCH	Mid-morning terminal urine following exercise [14]	1-2 days	£73.50	48
Schistosome (Bilharzia) Antibodies	BILH	B [14]	10 days	£116.50	92
Scleroderma Immunoblot	SCLI	B	3 days	£185.00	87
Screening Profile 1 – Biochemistry CHANGE	PP1	B G	1 day	£133.50	26
Screening Profile 2 – Haematology/ Biochemistry CHANGE	PP2	A B G	1 day	£184.00	26
Screening Profile 3 – Haematology	PP3	A	1 day	£58.00	26
Screening Profile 4 – Haematology/ Biochemistry (Short) CHANGE	PP4	A B G	1 day	£176.50	26
Screening Profile 5 – Haematology/ Biochemistry (Postal) CHANGE	PP5	A B G	1 day	£176.50	26
Screening Profile 6 – Well Person CHANGE	PP6	A B G	1 day	£241.50	26
Screening Profile 7 – Well Man CHANGE	PP7	A B G	1 day	£298.50	27
Screening Profile 8 – Well Person CHANGE	PP8	A B G	2 days	£298.50	27
Screening Profile 9F – Senior Female CHANGE	PP9F	A B B G RU [4]	2 days	£533.50	27
Screening Profile 9M – Senior Male CHANGE	PP9M	A B B G RU [4]	2 days	£558.00	27
Screening Profile 10 – Cardiovascular Risk 1	PP10	B B	3 days	£362.50	27
Screening Profile 11 – Cardiovascular Risk 2	PP11	B B B C [34]	3 days	£437.00	27
Screening Profile 12 – Sexual Health Screen	PP12	FCRU / PCR / TPV	2 days	£296.50	27
Seed Storage Proteins	ZZ26	B	2 days	£268.00	143
Selenium (Serum) (Self-collect)	SELE	B (TDL Tiny)	4 days	£77.00	37, 152, 161
Selenium (Serum) (Venous)	SELE	B	4 days	£77.00	37, 152
Self-collection samples					155
Sellotape Test	SELL	Send Sample***	1 day	£84.00	48
Semen Analysis, Comprehensive*	SPER	Semen [1]	2 days*	£220.50	68
Semen Analysis, Post-Vasectomy**	PVAS	Semen [1]	2 days	£120.00	68
Semen Analysis, Vasectomy Reversal*	SPER	Semen [1]	2 days*	£220.50	68

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Semen Culture	SPCU	Semen	2-4 days	£81.00	48, 68
Semen Fructose (Qualitative assessment)	SPCF	Semen	2 days	£94.50	68
Semen Leucocytes	PMNS	Semen	2 days	£120.00	68
Semen Zinc	SPCZ	Semen	up to 10 days	£40.50	68
Serotonin	SERT	H H (Frozen whole blood)[1]	10 days	£135.00	59
Serotonin (Urine)	USER	PU 50mls (Frozen)[1]	5 days	£161.00	60
Serum Albumins	ZZ30	B	2 days	£200.50	143
Serum Free Light Chains	SLC	B	5 days	£327.00	37
Sesame Components	ZZ39	B	2 days	£40.50	143
Sex Hormone Binding Globulin (Self-collect)	SHBG	B (TDL Tiny) or F (TDL Tiny)	1 day	£65.50	60, 161
Sex Hormone Binding Globulin (Venous)	SHBG	B	1 day	£65.50	60
Short Stature – SHOX variant screening + deletions/duplications	GENE	A[9]	8 weeks	£750.00	127
Short-Chain Acyl-CoA Dehydrogenase Deficiency – ACADS sequencing	GENE	A[9]	6 weeks	£750.00	127
Shrimp Components	ZZ17	B	2 days	£70.50	143
Silver (Blood)	SILV	B	5 days	£108.50	37, 165
Silver (Urine)	USIL	RU	5 days	£108.50	37, 165
Silver-Russell Syndrome – methylation studies on 11p15 imprinting domains KvDMR + H19	GENE	A[9]	7 weeks	£600.00	128
Sinequan (Doxepin)	DOXE	A or H	10 days	£121.00	139
Sirolimus	SIRO	A	3 days	£134.00	139
Sjogren's Syndrome	RH7	B	15 days	£106.00	87
Skeletal Dysplasia NGS Panel	GENE	A A[9]	6 weeks	£1,900.00	128
Skin (Pemphigus/Pemphigoid) Autoantibodies	SKAB	B	2 days	£65.50	87
Skin Antibodies by Immunofluorescence	STSK	B	1 month	£246.00	87
Skin Scrapings/Mycology by PCR	DERM	Send Sample	3-7 days	£81.00	48
Sleeping Sickness Serology (African Trypanosomiasis)	TRYP	B[9]	10 days	£208.50	87
Smith-Lemli-Opitz Syndrome – DHCR7 sequencing	GENE	A[9]	6 weeks	£750.00	128
Smooth Muscle Antibodies	ASMO	B	2 days	£54.00	87
Sodium	NA	B	1 day	£28.00	37
Somatomedin (IGF-1)	SOMA	B (Frozen)[4,7]	1 day	£98.50	60
Soybean Components	ZZ18	B	2 days	£136.00	143
Spastic Paraplegia NGS Panel	GENE	A A[9]	6 weeks	£1,600.00	128
Sperm Aneuploidy	SPPL	Semen[1]	4 weeks	£913.00	68
Sperm Antibodies (Serum)	ASAB	B	5 days	£139.00	68, 87
Sperm Antibodies/MAR Test (Semen)†	ASPA	Semen	1 day	£121.00	68
Sperm Comet®	CMET	Semen[1]	1-2 weeks	£360.00	68
Sperm Comet® Exact Focus	CMT2	Semen[1]	1-2 weeks	£490.00	68
Sperm Comet® Extend	CMT3	Semen[1]	1-2 weeks	£490.00	68
Sperm Comet® Extend Focus	CMT4	Semen[1]	1-2 weeks	£665.00	68

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Sperm Count (Post-Vasectomy)	PVAS	**Semen** [1]	2 days	£120.00	68
Sperm DNA Fragmentation (SCSA type test)	SEXT	**Semen** [1]	1-2 weeks	£260.00	68
Sperm Morphology (Kruger strict criteria)	MRPH	**Semen** [1]	2 days	£98.50	68
Spinal Bulbar Muscular Atrophy (Kennedy Disease) – AR repeat analysis	GENE	A [9]	5 weeks	£300.00	128
Spinal Muscular Atrophy – SMN1 deletions/duplications	SMA	A [9]	10 days	£493.50	128
Spinocerebellar Ataxia – multiplex SCA1+2+3+6+7+8+10+12 +17 common repeat expansions	GENE	A [9]	5 weeks	£550.00	128
Spinocerebellar Ataxia NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	128
Sports/Performance Profile	SPOR	A A A B B B B G K [4]	5 days	£552.50	152-153
Sputum for Routine Culture	SPU1	**SC**	2-4 days	£89.50	48
Sputum for TB Culture (AFB)	SPU2	**SC**	up to 8 weeks	£89.50	48
Squamous Cell Carcinoma	SCC	B	4 days	£211.50	106
STD1 M/F STD Quad (Urine and Serology)	STD1	B **FCRU**	2 days	£139.00	74, 76
STD2 M/F STI Profile Plus (Urine and Serology)	STD2	B **FCRU** (If culture swabs are needed please request separately)	4 days	£397.00	74, 76
STD3 Female STD Quad (PCR Swab and Serology)	STD3	B **PCR**	2 days	£139.00	74, 76
STD4 Female STI Profile Plus (PCR Swab and Serology)	STD4	B **PCR** (If culture swabs are needed please request separately)	4 days	£397.00	74, 76
STD5 Serology only	STD5	B	1 day	£152.00	74, 76
STD6 Serology only without HIV	STD6	B	1 day	£142.50	74, 76
STD8 Vaginitis/BV Profile using Culture & PCR Swab	STD8	**PCR** and **STM**	3 days	£150.00	74, 76
STD9 Symptomatic lesion sample using PCR Swab from lesion	STD9	**PCR Swab**	7 days	£130.50	74, 77
Steroid Cell Antibody	SCA	B	2 days	£97.00	87
STI Profile by PCR (7 tests from 1 sample) (Self-collect)	DL12	Aptima urine or multisite swab	2 days	£140.00	74, 161
STI Profile: MSM1 (Blood + Urine/ Throat/Rectal Swabs) (Self-collect)	MSM1	B (TDL Tiny) / Aptima Urine / Aptima multisite swab x 2	2 days	£216.00	74, 161
STI Profile: MSM1 (Venous)	MSM1	B / **FCRU** / **PCR Swab Throat** / **PCR Swab Rectal**	2 days	£216.00	74, 78
STI Profile: MSM2 (Blood + Urine/ Throat/Rectal Swabs) (Self-collect)	MSM2	B (TDL Tiny) / Aptima urine / Aptima multisite swab x 2	3 days	£445.00	74, 161
STI Profile: MSM2 (Venous)	MSM2	B / **FCRU** / **PCR Swab Throat** / **PCR Swab Rectal**	3 days	£445.00	74, 78
Stockholm3 NEW	STK3	A A	2 weeks	£310.00	28, 106
Stockholm3 Reflex NEW	STKR	A A B	2 weeks	£310.00	28, 106
Stool for OCP and Culture by PCR	PENT	**RF** [††]	2-3 days	£81.00	48
Stool for OVA Cysts & Parasites by Microscopy	MOCP	**RF**	2 days	£42.00	49

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Stool Reducing Substances	STRS	**RF**[7]	2-3 weeks	£55.00	49
Streptomycin Levels	STRM	F	5 days	£172.00	139
Striated/Skeletal Muscle Antibody	STRA	B	3 days	£54.00	87
Strongyloides Antibodies	STGA	B	10 days	£119.00	87
Sulpiride	SULP	B[4]	4 days	£121.00	139
Superoxide Dismutase	SODI	A / H	5 days	£107.00	37
Suppression with steroid, IVIg and intralipin, NK (CD69) cell assay, TH1/TH2 cytokines	NCIT	HHHH*	Send Mon-Thurs only	£1,058.00	62
Swab (Cervical)	CERS	**STM / CS**	2-4 days	£81.00	49
Swab (Ear)	EARS	**STM**	2-4 days (Culture) 8-9 days (Fungal) – same swab	£81.00	49
Swab (Eye)	EYES	**STM**	2-4 days	£81.00	49
Swab (Nasal)	NASS	**STM**	2-4 days	£81.00	49
Swab (Oral)	ORSW	**STM/CS**	2-4 days	£81.00	49
Swab (Penile)	PENS	**STM/CS**	2-4 days	£81.00	49
Swab (Rectal)	RECG	**STM/CS**	2-4 days	£81.00	49
Swab (Skin)	SKIS	**STM**	2-4 days	£81.00	49
Swab (Throat)	THRS	**STM**	2-4 days	£81.00	49
Swab (Urethral)	URES	**STM/CS**	2-4 days	£81.00	49
Swab (Vaginal)	VAGS	**STM/CS**	2-4 days	£81.00	49
Swab (Vulval)	VULV	**STM/CS**	2-4 days	£81.00	49
Swab (Wound)	WOUS	**STM**	2-4 days	£81.00	49
Synacthen Stimulation Test	SYNA	By appointment only	1 day	£266.50	137
Synovial Fluid (for microscopy, crystals and culture)	FLU2	**SC**†††	14 days	£136.50	49
Syphilis by PCR (chancre)	SYPS	**PCR**	5 days	£151.00	74
Syphilis IgG/IgM (Self-collect)	TSYP	B (TDL Tiny)	1 day	£65.50	74, 87, 161
Syphilis IgG/IgM (Venous)	SERJ	B	1 day	£65.50	75, 87
T Regulatory Cells	25RF	H	3 days	£601.50	61
T3	T3	B	1 day	£55.00	60
T3 (Reverse)	RT3	B[7,37]	15 days	£136.00	60
Tacrolimus/Prograf (FK506)	FK5	A[4]	1-2 days	£140.00	139
Taipan Snake Venom Time	TTVT	CC[9,18]	2-3 weeks	£251.50	43
Tay Sachs Screen	GENE	A[9]	4 weeks	£600.00	128
TB (Pleural Fluid)	TBCU	**SC**	up to 8 weeks	£89.50	49
TB Culture	SPU2	**SC**	up to 8 weeks	£89.50	49
TB Culture (Urine)	TBUR	3 x **EMU**	up to 8 weeks	£189.00	49
TB PCR (PCR detection of Mycobacterium tuberculosis complex and mutations for Rifampicin resistance)	TBPC	All samples except blood cultures and urine, as clinically requested.	1 day	£199.00	49
TB Quantiferon®-TB Gold*	TBQ4	**Special tubes** or H[1]	3 days	£119.00	87

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
TB Slopes – Confirmation and Sensitivity	TBSL	**TB slope** (LJ medium-green)[6]	up to 8 weeks	£210.00	49
Tegretol (Carbamazepine)	CARB	B	1 day	£65.50	139
Teicoplanin Assay	TEIC	B	5 days	£121.00	137
Temazepam	TEMA	B[4]	4 days	£134.00	139
Testicular Tumour Profile (LDH, AFP, HCQG)	TTP	B	1 day	£134.00	106, 108
Testosterone (Self-collect)	TEST	B (TDL Tiny) or F (TDL Tiny)	1 day	£55.00	60, 161
Testosterone (Total), LC MS Mass Spec NEW	MSTT	B	5-7 days	£113.00	60
Testosterone (Venous)	TEST	B	1 day	£55.00	60
Testosterone (Free) (Self-collect)	FTES	B (TDL Tiny) or F (TDL Tiny)	3 days	£113.00	60, 161
Testosterone (Free) (Venous)	FTES	B	3 days	£113.00	60
Tetanus Antibody	TETA	B	5 days	£112.00	87, 95
TH1/TH2 Cytokine Profile	1TH2	H H*	Send Mon-Thurs only	£374.50	62
TH1/TH2 Cytokine Ratio	6RF	H H[5]	1 week	£388.00	61
TH1/TH2 Intracellular Cytokine Ratios with IVIG	21RF	H H[5]	1 week	£650.50	61
TH1/TH2 Intracellular Cytokine Ratios with IVIG, Prednisolone	20RF	H H[5]	1 week	£813.00	61
TH1/TH2 Intracellular Cytokine Ratios with Prednisolone	22RF	H H[5]	1 week	£650.50	61
Thalassaemia Screen	HBEL	A	4 days	£106.00	43
Thallium (Blood)	THAL	A / H	1 week	£78.50	166
Thallium (Urine)	URTH	**RU**	1 week	£78.50	166
Theophylline	THEO	B	1 day	£57.50	139
Thiopurine Methyl Transferase	TPMT	A[5]	5 days	£151.00	37
Thrombin Time	THRO	C[18]	1 day	£35.00	42
Thrombotic Risk Profile	PROP	A A B C C C[18]	5 days	£760.00	43, 45, 128, 130
Thyroglobulin Abs	TGAB	B	1 day	£56.50	60
Thyroglobulin Assay	TGA	B	1 day	£97.00	60
Thyroid Abs (Thyroglobulin + Thyroid Peroxidase Abs) (Self-collect)	THAB	B (TDL Tiny)	2 days	£92.00	60, 87, 161
Thyroid Abs (Thyroglobulin + Thyroid Peroxidase Abs) (Venous)	THAB	B	1 day	£92.00	60, 87
Thyroid Cancer NGS Panel	GENE	A A[9,11]	4 weeks	£1,100.00	128
Thyroid Peroxidase Antibodies/Anti TPO	TPEX	B	1 day	£56.50	60, 87
Thyroid Profile 1 (FT4/TSH) (Self-collect)	TF	B (TDL Tiny)	1 day	£77.00	60, 161
Thyroid Profile 1 (FT4/TSH) (Venous)	TF	B	1 day	£77.00	60, 64
Thyroid Profile 2 (Venous)	TF2	B	2 days	£184.00	60, 64
Thyroid Profile 3 (FT3/FT4/TSH) (Self-collect)	TF3	B (TDL Tiny)	1 day	£109.50	60, 161
Thyroid Profile 3 (FT3/FT4/TSH) (Venous)	TF3	B	1 day	£109.50	60, 64
Thyroxine (T4)	T4	B	1 day	£50.50	60
Thyroxine Binding Globulin	TBG	B (Frozen)	10 days	£128.50	60
Timothy Grass Components	ZZ19	B	2 days	£301.50	143
Tissue for culture	TISS	**Tissue sample**	up to 14 days	£89.50	49

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Tissue Polypeptide Antigen	TPA	B	1 week	£181.50	37
Tissue Transglutaminase IgA (Coeliac) (Self-collect)	TAA	B (TDL Tiny)	2 days	£66.50	87, 161
Tissue Transglutaminase IgA (Coeliac) (Venous)**	TAA	B	2 days	£66.50	87
Tissue Transglutaminase IgG	TAAG	B	5 days	£78.50	87
Tobramycin Assay (Provide Clinical Details)	TOBR	H	3 days	£216.00	137
Toluene (Blood)	TOL	**J** (Contact Referrals)	10 days	£149.00	166
Toluene (Urine)	UTOL	**RU**	10 days	£192.00	166
Topiramate (Topamax)	TOPI	B [4]	4 days	£115.00	139
Torch Screen	TORC	B	2 days	£198.50	103, 105
Total Acid Phosphatase	APT	B	5 days	£52.50	37
Total Bile Acid/Bile Salts	BILS	B	1 week	£85.00	37
Total IgE	IGE	B	1 day	£60.00	37, 141
Total Immune Function Evaluation	TIE	A + B [5,10]	7 days	£369.50	87
Total Immunoglobulin E	IGE	B	1 day	£60.00	87
Total Testosterone, LC MS Mass Spec NEW	MSTT	B	5-7 days	£113.00	60
Toxocara Antibodies (IgG)	TFAT	B [9]	5 days	£82.50	87
Toxoplasma Antibodies (IgG, IgM)	TFAM	B [9]	1 day	£82.50	87, 92
Toxoplasma Antibody Full Evaluation (IgM, Dye Test, IgG Avidity)	TDYE	B [9]	10 days	£150.00	87
Toxoplasma by PCR	TXAG	A	5 days	£172.00	87
TPHA	TPPA	B	2 days	£40.50	75, 87
Trace Metal (Blood) Profile	TRAC	A B H K	7-10 days	£313.50	165-166
Transferrin	TRAN	B	1 day	£86.00	37
Transferrin Electrophoresis	TREL	B	2 weeks	£276.00	37
Treacher Collins Syndrome and Related Disorders NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	129
Trichinella Serology	TRIC	B	5 days	£103.50	87
Trichloracetic Acid (Urine)	UTCA	**RU**	5 days	£145.00	166
Trichomonas vaginalis (Thin Prep)	TVPC	**TPV**	2 days	£93.00	170
Trichomonas vaginalis (PCR)	TVPC	**FCRU / PCR / TPV**	2 days	£93.00	75
Trichomonas vaginalis (TV) – Urine or Vaginal (Self-collect)	TVPC	Aptima urine or multisite swab	2 days	£93.00	75, 162
Triglycerides	TRI	B	1 day	£33.50	37
Trimethylaminuria (Fish Odour Syndrome)	FOS	**J**	6 weeks	£389.50	37
Trimipramine	TRIM	A	5 days	£96.00	139
Triple Swab Female STI Profile (Vaginal/Throat/Rectal Swabs) (PCR)	3SWA	**PCR** swab x 3 (label by site)	2 days	£165.50	75, 78
Triple Swab Female STI Profile (Vaginal/Throat/Rectal Swabs) (Self-collect)	3SWA	Aptima multisite swab x 3 (label by site)	2 days	£165.50	75, 162
Tropical Screen (from 6 weeks post-travel)	TROP	B B [9,14]	10 days	£229.50	92-93
Tropomyosins	ZZ31	B	2 days	£103.50	143

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Troponin I (High sensitive)	TROC	B	1 day	£100.00	37
Troponin T (High sensitive)	TROT	B	1 day	£108.50	37
Trypanosome (Chagas) Antibodies	CHGA	B [9,14]	10 days	£151.00	88
Tryptase	STRY	B	2 days	£157.50	37, 141
TSH (Self-collect)	TSH	B (TDL Tiny)	1 day	£55.00	60, 162
TSH (Venous)	TSH	B	1 day	£55.00	60
TSH-Receptor Antibodies	TSI	B	4 days	£165.50	60, 88
Tuberous Sclerosis (TSC1 + TSC2)	GENE	A A [9]	7 weeks	£1,200.00	129
Tularaemia Antibodies	TULA	B [14]	5 days	£107.00	88
Tumour Necrosis Factor – Alpha	TNF	B (Frozen)[4]	2 weeks	£185.00	37
Urate (Uric acid)	UA	B	1 day	£33.50	37
Urea (Self-collect)	UREA	B (TDL Tiny)	1 day	£33.50	37, 162
Urea (Urine)	UURE	**CU**	1 day	£33.50	38
Urea (Venous)	UREA	B	1 day	£33.50	37
Urea and Electrolytes	U/E	B	1 day	£56.50	38, 40
Urea/Creatinine/eGFR (Self-collect)	TCU	B (TDL Tiny)	1 day	£44.50	38, 162
Ureaplasma urealyticum (Thin Prep)	UGEN	**TPV**	2 days	£93.00	170
Ureaplasma urealyticum by PCR	UGEN	**FCRU / PCR / TPV**	2 days	£93.00	75
Uric Acid (Serum)	UA	B	1 day	£33.50	38
Uric Acid (Urine)	UURI	**CU**	1 day	£44.50	38
Urinary Bladder Cancer Antigen	UBC	**RU** (Freeze within 48 hours)**	5 days	£93.00	38, 106
Urinary Methyl Histamine	UHIT	**RU** (Frozen)	2 weeks	£129.50	88
Urinary Tract/Renal Cancer NGS Panel	GENE	A A [9,11]	4 weeks	£1,100.00	129
Urine (Microscopy Only)	UMIC	**RU**	1 day	£52.50	49
Urine Chemistry and Microscopy (Self-collect)	UMIC	Urine (Universal). Mid stream.	1-2 days	£52.50	49, 162
Urine Chemistry, Microscopy and Culture (Self-collect)	UCEM	Urine (Universal & Boric). Mid stream.	1-2 days	£68.50	50, 162
Urine Cytology (Urine cytology containers available from TDL Supplies)	URCY	**Urine** (30mls)[21]	2 days	£151.50	174
Urine EtG (Ethyl glucuronide)	ETG	**RU**	1 week	£113.00	163
Urine for Extended Culture	UCXD	**MSU** ††††	up to 7 days	£147.00	50
Urine for Microscopy and Culture	UCEM	**MSU** ††††	1-2 days	£68.50	50
Urine Microalbumin/Creatinine Ratio	UMA	**RU**	1 day	£77.00	38
Urine Organic Acids	UORG	**RU** (Frozen)	3 weeks	£300.50	38
Urine Steroid Screen (Steroid Hormones)	USTE	**CU** [9]	2 weeks	£841.50	38
Urine Sugar Chromatography	UCRO	**RU** (Frozen)	3 weeks	£184.00	38
Urticaria Test (Histamine Releasing)	CURT	B	3 weeks	£171.00	88
Usher Syndrome NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	129
Vaginitis/BV Profile (Culture & PCR)	STD8	**PCR** and **STM**	3 days	£150.00	75
Vaginitis/BV Profile using Culture & PCR Swab (Self-collect)	STD8	Aptima multisite swab and Blue gel Amies swab	3-5 days	£150.00	75, 162
Valium (Diazepam)	DIAZ	A	7 days	£109.50	139
Valproic Acid (Epilim)	VALP	B	1 day	£57.50	139

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Vancomycin Hydrochloride	VANC	B	1 day	£96.00	137
Varicella zoster – DNA	VZPC	A	5 days	£285.50	103
Varicella zoster Antibodies (IgG)	VZOS	B	1 day	£80.00	95, 103
Varicella zoster Antibodies (IgM)	VZOM	B	1 day	£80.00	95, 103
Vascular Endothelial Growth Factor	VEGF	B	14 days	£227.50	88
Venom Components	ZZ33	B	2 days	£163.50	143
Very Long Chain Fatty Acids	VLCF	A or H (Frozen) [9]	4-6 weeks	£319.00	38
Vigabatrin (Sabril)	VIGA	A	10 days	£115.00	139
Viral Antibody Screen	VIRA	B B	2 days	£190.00	103, 105
Viral Eye by PCR	VPE	**PCR**	3 days	£128.50	103, 105
Viral Respiratory RNA Screen by PCR	VPR	**PCR** or as specified on the form	2 days	£328.00	103, 105
Viral Respiratory RNA Screen by PCR (Self-collect)	VPR	Aptima multisite swab of nose/throat	2 days	£328.00	103, 162
Viral Skin/Mucosa by PCR	VPSK	**PCR**	5 days	£115.00	104-105
Viscosity (Plasma)	VISC	A *4	3 days	£60.00	43
Vitamin A (Retinol)	VITA	B	5 days	£160.00	151
Vitamin B (Functional)	FUNC	A A or H	5 days	£148.00	151
Vitamin B Profile	VBP	A A B	5 days	£475.50	151, 153
Vitamin B1 (Thiamine)	VIT1	A	5 days	£160.00	151
Vitamin B2 (Riboflavin)	VIB2	A	5 days	£160.00	151
Vitamin B3 (Nicotinamide)	VIB3	B	5 days	£160.00	151
Vitamin B5 (Pantothenic Acid)	VB5S	B	5 days	£139.00	151
Vitamin B6 (Pyridoxine)	VITB	A	5 days	£160.00	151
Vitamin B7 (Biotin)	BIOS	B [7]	5 days	£154.00	151
Vitamin B9 (Folic acid) – Red cell	RBCF	A	2 days	£52.50	151
Vitamin B9 (Folic acid) – Serum	FOLA	B	1 day	£52.50	151
Vitamin B12 (Active) (Self-collect)	B12	B (TDL Tiny)	1 day	£70.50	38, 151, 162
Vitamin B12 (Active) (Venous)	B12	B	1 day	£70.50	38, 151
Vitamin B12 (Active)/Red Cell Folate	B12F	A B	2 days	£112.00	38, 151
Vitamin B12 (Total)	TB12	B	1 day	£57.50	38
Vitamin C (Active)	VITC	B (spun and frozen within 3 hours)*	5 days	£160.00	151
Vitamin D (1, 25 Dihydroxy)	D3	B *	5-8 days	£149.00	151
Vitamin D (25-OH) (Self-collect)	VITD	B (TDL Tiny)	1 day	£83.50	38, 151, 162
Vitamin D (25-OH) (Venous)	VITD	B	1 day	£83.50	38, 151
Vitamin E (Alpha Tocopherol)	VITE	B	5 days	£167.50	151
Vitamin K (Nutritional)	VKN	Serum (SST or B) *	5 days	£91.00	151
Vitamin Profile 1	VITS	A B B [7]	5 days	£331.00	151, 153
Vitamin Profile 2	VIT2	A A A [38] B B [7,13]	5 days	£496.50	151, 153
VLDL Cholesterol	VLDL	B [13]	1 week	£86.00	38
VMA	UVMA	**PU** [1]	5 days	£76.00	38

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Voltage Gated Calcium Channel Antibodies	CCAB	B	3 weeks	£269.00	88
Voltage Gated Potassium Channel Antibodies	VPCA	B	3 weeks	£196.50	88
Von Hippel-Lindau Syndrome – VHL sequencing + deletions/duplications	GENE	A [9]	6 weeks	£750.00	129
Von Willebrand Profile	FVWF	C C C [4,9,12]	5 days	£229.50	43, 45
Von Willebrands Multimers	VWM	C C C [18]	3 months	£633.50	43
Wall Pellitory Components	ZZ20	B	2 days	£70.50	143
Walnut Components	ZZ34	B	2 days	£103.50	143
West Nile Virus Abs	WNV	B	2 weeks	£245.00	104
Wheat Components	ZZ21	B	2 days	£138.00	143
Whole Genome Sequencing (solo/duo/trio)	GENE	A [9,11]	5-8 weeks	£3,500.00	129
Whooping Cough (Pertussis) Antibodies	PERS	B	5 days	£128.50	88
Whooping Cough (Pertussis) by PCR	PERP	**Pernasal or dry swab**	2-3 days	£174.00	88
Xanthine – Blood	XANB	A	2 weeks	£109.50	166
Xylene – Urine	UXYL	**RU** [30]	2 weeks	£108.50	166
Yellow Fever Antibodies	YELL	B [9,14]	10 days	£179.50	88
Yersinia Antibodies	YERS	B	4 days	£181.50	88
Zellweger Syndrome NGS Panel	GENE	A A [9]	6 weeks	£1,600.00	129
Zika Abs IgM and IgG – Antibody detection from 15 days	ZKAB	B	Up to 14 days	£129.50	88, 92, 104
Zika RNA by PCR in Semen	ZIKS	**Semen**	Up to 14 days	£318.00	88, 92, 104
Zika RT PCR – Window of detection from 1-7 days from onset of symptoms	ZIKA	B	Up to 14 days	£228.50	88, 92
Zika RT PCR – Window of detection from 1-14 days from onset of symptoms	ZIKU	**RU**	Up to 14 days	£228.50	88, 92
Zinc (Serum)	ZINC	K	2 days	£51.50	152, 165
Zinc (Urine)	URZN	**CU**	5 days	£55.00	152, 165
Zinc (Whole Blood)	RBCZ	A or H	5 days	£54.00	152
Ziwig Endotest®	ENDT	Endotest saliva collection kit	25 days	£850.00	60, 129

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TDL Referral laboratories

For certain specialist tests TDL has developed a selected network of TDL Group and Reference Laboratories. These Group or specialist laboratories can be identified by a code assigned to reports. The quality of these laboratories is recognised by UKAS, or similar accrediting bodies for the laboratories outside the UK.

TDL Referral laboratories

A3P Biomedical AB [980]

Addenbrooke's Hospital – BGU and Immunology [899]

Alder Hey Children's NHS Foundation Trust – Biochemistry Department [880]

Analytical Services International Ltd, St George's University of London – Forensic Toxicology Service [994]

Animal and Plant Health Agency – Veterinary labs [911]

Bio Predictive [Original report]

Bioscientia (Germany) [868]

Birmingham Children's Hospital NHS Foundation Trust – Clinical Chemistry [970]

Birmingham University Hospital NHS Foundation trust [895]

Brucella Reference Unit – Liverpool Clinical Laboratories, Royal Liverpool and Broadgreen Hospital [947]

Cambridge Clinical Laboratory [867]

Cambridge Life Sciences [997]

Cambridge Nutritional Science Ltd [Original report]

Cardiff and Vale University Health Board – Porphyria Service Cardiff [834]

Cardiff and Vale University Health Board – The Analytical Toxicology Department [998]

Douglass Hanly Moir Pathology (Australia) [Original report]

Epsom and St Helier University Hospital NHS Trust – Biochemistry Department [968]

Epsom and St Helier University Hospital NHS Trust – Immunology Department [968]

Epsom and St Helier University Hospital NHS Trust – Microbiology Department [951]

Eurofins – Biomnis (France) [950]

Great Ormond Street Hospital – Department of Chemical Pathology [964]

Great Ormond Street Hospital – Enzyme Unit, Chemical Pathology [964]

Great Ormond Street Hospital – Immunology Department [924]

Great Ormond Street Hospital – Neurometabolic Unit [964]

Guildford RSCH Trace Element Laboratory, SAS Trace Element Centre [955]

HCA Healthcare UK – HCA Laboratories [982]

HFL Sport Science (LGC Group) [861]

Igenomix UK [Original Report]

Imperial College Healthcare NHS Trust – Charing Cross Hospital, Chemical Pathology Department [912]

Imperial College Healthcare NHS Trust – Charing Cross Hospital, Infection and Immunity Department [962]

Imperial College Healthcare NHS Trust – Charing Cross Hospital, Medical Oncology [912]

Imperial College Healthcare NHS Trust – Hammersmith Hospital, Molecular Endocrinology [931]

Imperial College Healthcare NHS Trust, St Mary's Hospital – Virology Department [912]

Institute of Aquaculture – University of Stirling [1000]

Institute of Neurology – Neurogenetics Unit [975]

King's College Hospital – HMDC Laboratory for Molecular Haemato-Oncology [943]

Labor Augsburg MVZ GmbH (Germany) [900]

Latis Scientific [927]

LogixX Pharma Ltd [Original report]

London School of Hygiene & Tropical Medicine – Diagnostic Parasitology Lab [933]

Matrix Diagnostics [896]

Mayo Clinic Laboratories (Netherlands [894]

TDL Referral laboratories

Meningococcal reference unit (Men RU)
Manchester – Manchester Royal Infirmary [949]

Micropathology Ltd [920]

National Blood Service – Colindale,
Red Cell Immuno Haematology Department [910]

NHS Blood and Transplant – Birmingham [856]

NHS Blood and Transplant – H & I Laboratory [855]

NHS Blood and Transplant – Tooting [854]

Norfolk and Norwich University Hospital NHS Foundation Trust – SAS Metabolic Bone Laboratory [993]

Oxford University Hospital NHS Foundation Trust
– Churchill Hospital [983]

Queens University Hospital, Belfast –
Institute of Clinical Science [853]

Reflab (Denmark) [988]

Reproductive Immunology Centre [839]

Rosalind Franklin University (USA) - [Original report]

Royal Berkshire Hospital NHS Foundation Trust
– Clinical Biochemistry [849]

Royal Devon and Exeter NHS Foundation Trust [838]

Royal Surrey County Hospital –
SAS Peptide Hormone Section [959]

Sandwell and West Birmingham NHS Trust
– City Hospital Birmingham,
Clinical Biochemistry Department [970]

Sheffield Children's NHS Trust –
Clinical Chemistry [847]

Sheffield Teaching Hospital NSH Foundation Trust
– Protein Reference Laboratory Unit and
Immunology Department [966]

Southmead Hospital – Antimicrobial
Reference Laboratory, Bristol [915]

St George's University Hospital NHS Foundation Trust
– Cell Marker Department [846]

Synnovis – Guy's Hospital,
Biochemistry Genetics Laboratory [930]

Synnovis – King's College Hospital,
Clinical Biochemistry [914]

Synnovis – St Thomas' Hospital
Haemophilia Centre [956]

Synnovis – St Thomas' Hospital Immunohistology [961]

Synnovis – St Thomas' Hospital Purine
Research Laboratory [925]

The Epilepsy Society (Chalfont Centre) [837]

The Leeds Teaching Hospital NHS Trust –
Endocrinology Laboratory (including SAS Steroid
Centre), Department of Specialist Laboratory
Medicine, St James University Hospital) [992]

The Leeds Teaching Hospitals NHS Trust
– Mycology Reference Centre [973]

The Newcastle upon Tyne Hospitals –
Royal Victoria Infirmary [878]

The Royal Marsden Hospital –
Department of Haematology / Oncology [989]

The Royal Marsden Hospital –
Department of Pathology [990]

Toxoplasma Reference Unit, Public Health Wales
Microbiology ABM, Singleton Hospital – Swansea [969]

Trace Laboratories Ltd [955]

UCL Great Ormond Street Institute of Child Health [935]

UCL Queen Square Institute of Neurology –
Department of Neuroimmunology [975]

UKHSA – Bacteriology Reference
Department (BRD), Colindale [910]

UKHSA – Virus Reference Department (VRD)
– Colindale [910]

UKHSA Mycology Reference Laboratory – UKHSA South
West Laboratory, Southmead Hospital, Bristol [903]

UKHSA National Mycobacterium Reference Service
National Infection Service, Colindale [974]

UKHSA Rare and imported pathogens laboratory
– Porton Down [981]

University Hospital Birmingham NHS Foundation Trust
– Heartlands Hospital [843]

University Hospital of Wales – Cardiff
Medical Immunology Department [842]

TDL Referral laboratories

Wythenshawe Hospital, Manchester University NHS Foundation Trust, Manchester [835]

Ziwig [833]

Group laboratories

Royal Free London NHS Foundation Trust – Haemostasis [984]

University College London Hospitals NHS Foundation Trust (UCLH) – Cytology [Original report]

University College London Hospitals NHS Foundation Trust (UCLH) – Hospital for Tropical disease [933]

University College London Hospitals NHS Foundation Trust (UCLH) – Molecular Virology [999]

University College London Hospitals NHS Foundation Trust (UCLH) – Special Chemistry [953]

TDL Genetics Referral laboratories

All Wales Medical Genetics Service

Anthony Nolan, Histocompatability and Immunogenetics

Asper Biotech

Bioscientia GmBH

Bristol Genetics Laboratory (North Bristol NHS Trust)

CentoGene

DiaGenom GmbH

Douglass Hanly Moir Pathology

East Scotland Regional Genetics Service (NHS Tayside)

Exeter Clinical Laboratory – Department of Molecular Genetics

Fulgent Diagnostics

Institute of Neurology, Queen's Square

International Blood Group Reference Laboratory

London South East Genetics Service

Medical Genetics Laboratory – Central Manchester University Hospitals NHS Foundation Trust

Medical Neurogenetics Laboratory LLC

Micropathology Ltd

Molecular Genetics Laboratory – Liverpool's Women NHS Foundation Trust

Molecular Vision Laboratory

Newcastle Mitochondrial NGC Diagnostic Service

North East Thames Regional Genetic Service

North West London Pathology

North West Thames Regional Genetic Service

Northern Genetics Service

Oxford Genetics Laboratory – Oxford University Hospitals

Prevention Genetics

Progenika Biopharma Grifols

Protein Reference Unit & Immunology Department – Sheffield Protein Unit

Purine Research Laboratory – St Thomas' Hospital

Royal Marsden – Haemato-Oncology Unit

Sheffield Diagnostic Genetics Service

SIHMDS – Cytogenetics Laboratory, Great Ormond Street Hospital

South East Scotland Genetics Service (NHS Lothian)

South West Thames Regional Genetics Service

SYNLAB Budapest Diag Center

The Leeds Genetics Laboratory Viapath Analytics LLP

Wessex Region Genetics Service

West Midlands Regional Genetics Laboratory

West of Scotland Genetic Service (NHS Greater Glasgow and Clyde)

TDL Terms and Conditions of Business from 1st Jan 2025

The definitions which apply to these Terms and Conditions are set out in clause 19.

1 THE SERVICES

1.1 These Terms and Conditions and any applicable Service-Specific Terms will apply to any services or consumables that The Doctors Laboratory Limited or TDL Genetics Limited provides to the Client, unless those services are the subject of a separate written agreement signed by TDL and the Client. These Terms and Conditions and any applicable Service-Specific Terms apply to the exclusion of any other terms presented by the Client or implied by custom or course of dealing.

1.2 By submitting a Pathology Request, a request for any other services described in the Laboratory Guide or in any other proposal provided by TDL, or an order for any Consumables described in the Laboratory Guide (in each case an '**Order**'), the Client offers to purchase those Tests, other services or Consumables on these Terms and Conditions and any applicable Service-Specific Terms from TDL. TDL may accept or reject any Order.

1.3 A contract between TDL and the Client for the provision of Services and / or Consumables, incorporating these Terms and Conditions, and any applicable Service-Specific Terms, and the Order (an '**Agreement**') takes effect when TDL confirms acceptance of the Client's Order in writing, logs the relevant Pathology Request in its laboratory information management system, or begins performing the Services (whichever occurs first). Any request for add-on Tests (as described in the Laboratory Guide) constitutes a request for further Services under that Agreement, which TDL may accept or decline. In the event of a conflict between the Order and these Terms and Conditions, the Terms and Conditions will take priority.

1.4 By Ordering a Service referred to in any Service-Specific Terms, the relevant Service-Specific Terms will apply to that Service in addition to these Terms and Conditions. In the event of a conflict between these Terms and Conditions or the Order and the Service-Specific Terms, the Service-Specific Terms will take priority.

1.5 TDL will provide the Services under the Agreement:

1.5.1 in accordance with Good Industry Practice;

1.5.2 in accordance with the UKAS medical laboratory accreditation standard (ISO 15189); and

1.5.3 using suitably skilled and experienced staff.

1.6 TDL will use reasonable efforts to achieve the Test turnaround times quoted in the Laboratory Guide, but does not warrant that it will achieve those times in the case of any particular Sample.

1.7 The Laboratory Guide sets out Sample rejection criteria. If the Sample meets those criteria, or if TDL considers that the Sample is otherwise unsuitable for Testing or TDL is unable to conduct the Testing then TDL may decline to carry out the Testing under the Agreement and will be entitled to dispose of the Sample.

1.8 As part of its Services TDL will, on request, arrange for collection of Samples from locations within the M25 motorway. Such collection service is included within the price of the Test unless otherwise specified by TDL. Collection of Samples from locations outside the M25 is by special arrangement, and may incur an additional charge. Where collection by TDL has not been requested and agreed, the Client will be responsible, at its own cost, for the transport of Samples to TDL. Where TDL arranges collection of Samples it will use reasonable efforts to achieve the timescales it quotes for collection, but does not warrant that it will achieve those timescales in the case of any particular collection.

1.9 TDL may destroy or dispose of a Sample after completing the Testing or on termination of the Agreement, unless otherwise agreed in writing with the Client.

1.10 In providing the Services, TDL shall comply with all Applicable Law relating to anti-bribery and anti-corruption, including the Bribery Act 2010. TDL shall not, and shall ensure that its staff do not, engage in any activity which would constitute an offence under the Bribery Act 2010.

1.11 TDL is committed to trading ethically, with zero tolerance for modern slavery (including forced labour or human trafficking of any kind), human rights violations, and child labour. In performing its obligations under the Agreement, TDL will comply with all Applicable Law and applicable internal policies relating to anti-slavery and human trafficking.

1.12 TDL's laboratories are operated by members of the TDL Group. TDL uses those laboratories to undertake the Tests, except where TDL refers the Tests to suitably accredited laboratories operated outside the TDL Group. The UKAS accreditation numbers for the TDL Group laboratories in the UK are as follows: 8059 (HSL Analytics LLP) Genetics and Molecular Sciences, 8169 (HSL Analytics LLP) Blood Sciences, 8860 (HSL Analytics LLP) Infection Sciences, 8812 (The Doctors Laboratory Limited) Haematology, Blood Transfusion, Biochemistry, Microbiology, Molecular Biology, 10199 (The Doctors Laboratory Limited) Andrology, 8511 (HSL Analytics LLP) Cytology, 9706 (The Doctors Laboratory Limited) Urine Cytology.

2 SUPPLY OF CONSUMABLES

2.1 TDL shall supply Consumables to the Client in accordance with the terms of the Agreement.

2.2 The Consumables shall: (i) be of satisfactory quality (within the meaning of the Sale of Goods Act 1979) and fit for any purpose held out by TDL; and (ii) comply with all Applicable Law.

2.3 TDL shall not be liable for Consumables' failure to comply with clause 2.2 if: (i) the Client makes any further use of those Consumables after notifying TDL of such failure; (ii) the defect arises because the Client failed to follow TDL's instructions for the storage, use or maintenance of the Consumables or (if there are none) good practice regarding the same; (iii) the Client alters or repairs those Consumables without TDL's prior written consent; (iv) the defect arises as a result of fair wear and tear, deliberate damage, negligence, or abnormal storage or working conditions; or (v) the Consumables differ from their description as a result of changes made to ensure they comply with Applicable Law.

2.4 In the event the Consumables do not comply with clause 2.2, TDL shall provide replacement Consumables without undue delay. This shall be the Client's only remedy for such non-compliance. The terms of this clause 2 shall apply to any such replacement Consumables provided by TDL.

2.5 TDL shall ensure that the Consumables are properly packed and secured in a manner to enable them to reach their destination in good condition, and in a manner which complies with Applicable Law.

2.6 If the Client or the Client's carrier will collect the Consumables from TDL's premises, delivery shall be completed when TDL places the Consumables at the Client's disposal at TDL's premises. In all other cases, delivery shall be completed on the loading of the Consumables at the premises where they are loaded onto transport for carriage.

2.7 TDL may deliver Consumables by instalments, which may be invoiced and paid for separately. Time for delivery of Consumables is not of the essence of the Agreement and delays in the delivery of Consumables shall not entitle the Client to refuse to take delivery. TDL shall have no liability for any failure or delay in delivering Consumables to the extent that any failure or delay is caused by the Client's failure to comply with its obligations under the Agreement.

2.8 Title and risk in the Consumables shall pass to the Client on delivery, except that any biofreeze bottles provided by TDL shall remain the property of TDL at all times, regardless of any use by the Client of the biofreeze bottles.

2.9 The Client must not resell the Consumables or provide them to any third party without TDL's prior written consent.

2.10 The Client shall ensure that: (i) any Consumables provided by TDL are only used by healthcare professionals who are appropriately qualified and trained in the proper use of such Consumables; and (ii) the healthcare professionals use the Consumables in accordance with any instructions relating to the use of the Consumables provided by TDL and in any event with the degree of skill and care reasonably to be expected of a healthcare professional experienced in the use of such Consumables.

3 PRICE AND PAYMENT TERMS

3.1 The price payable by the Client for the Services and / or the Consumables will be the most recent price confirmed by TDL to the Client in writing or by telephone prior to the Client submitting its Order. If TDL has not confirmed the price for the Services and / or Consumables, the price will be that indicated in the Laboratory Guide.

3.2 As at the date of these Terms and Conditions many of TDL's services are VAT exempt. All of TDL's prices are stated exclusive of VAT and where VAT is chargeable on the Services and/or Consumables the Client will pay it at the applicable rate.

3.3 Invoices are normally issued on a monthly basis, but TDL reserves the right to issue them more frequently. The Client will pay TDL's invoices under the Agreement within 30 days of the date of the invoice, without any deduction or set off. At TDL's option, interest may be charged on late payments at the statutory rate prescribed from time to time by regulations under the Late Payments of Commercial Debts (Interest) Act 1998. Invoices paid from outside the UK must be paid by either direct bank transfer or by cheque drawn on a UK branch. All payments will be made in pounds sterling.

3.4 If the Client disputes any invoice: (i) the Client shall notify TDL in writing as soon as practicably possible and in any event not later than 90 days after the date of the invoice, specifying the reasons for disputing the invoice; (ii) the Client shall pay to TDL all amounts not disputed by the Client as set out in clause 3.3 above; and (iii) the parties shall attempt to resolve the dispute promptly and in accordance with clause 18.1 below.

3.5 If the Client does not dispute an invoice in accordance with clause 3.4 above then the amount stated on the invoice shall be deemed payable by the Client and the Client shall not be entitled to dispute the amount invoiced.

3.6 Without affecting any of its other rights, TDL may suspend or cease provision of the Services and / or Consumables if the Client fails to pay an invoice due to TDL, or if the total of the sums payable by the Client to TDL under any agreements between the Client and TDL meets or exceeds any credit limit that TDL communicates to the Client from time to time.

4 CONFIDENTIALITY

4.1 TDL agrees that it will hold and maintain the confidence of:

4.1.1 all information of a confidential nature which is received by TDL from the Client or its patients in connection with the Services; and

4.1.2 all Test results, invoices and other information of a confidential nature issued by TDL to the Client or its patients in connection with the Services, and, save with the Client's consent or as otherwise permitted under the Agreement, will not disclose such information other than to its professional staff, independent consultants and/or persons to whom it has delegated the performance of the Services and who require the information for such purpose. Where TDL has been provided with the details of a patient's private medical insurance in connection with the Services, TDL will be entitled to assume (and the Client so warrants) that both the Client and the patient consent to the disclosure of information relating to that patient to the insurer concerned.

4.2 The restrictions in clause 4.1 will not apply to information which: (i) was in TDL's possession prior to disclosure by the Client; or (ii) is now or hereafter comes into the public domain other than by default of TDL; or (iii) was lawfully received by TDL from a third party acting in good faith having a right of further disclosure; or (iv) is required by law to be disclosed by TDL; or (v) which is required by a regulatory or accreditation body to be disclosed to it for the purpose of regulating or accrediting the TDL Group.

5 CLIENT RESPONSIBILITIES

5.1 Except where TDL obtains the Sample directly from the patient during a home visit or at TDL's patient reception facility, the Client will ensure that the Sample is obtained from the patient, packaged, and labelled in accordance with Applicable Law good clinical practice and, if applicable, TDL's written instructions.

5.2 Except where TDL agrees to arrange transport of the Sample to TDL's laboratory, the Client will ensure that the Sample is transported to TDL's laboratory in accordance with Applicable Law and good clinical practice. Where TDL agrees to arrange transport of the Sample the Client will ensure that the Samples are ready for collection by TDL or its carrier at the agreed times.

5.3 The Client will ensure that all necessary consents and permissions are obtained and all necessary information provided to the patient, which is required under Applicable Law or good clinical practice in order to permit the performance of the Testing, and any other Services, and the use of the Protected Data as contemplated in the Agreement.

5.4 The Client will provide TDL with any information reasonably necessary for performing the Services and / or supplying Consumables, including by ensuring that the Pathology Request contains sufficient information regarding the Sample, the relevant patient, and the persons to whom the Test results are to be reported, and will ensure that any information the Client provides to TDL in connection with the Services and / or Consumables is accurate and complete.

6 LIABILITY

6.1 Nothing in the Agreement will limit or exclude any liability that cannot be limited or excluded under Applicable Law, for example liability for death or personal injury caused by negligence .

6.2 In these Terms and Conditions 'liability' means any liability whether in contract, tort (including negligence), misrepresentation, breach of statutory duty or otherwise, which arises in connection with the Services, the Consumables or under or in connection with any Agreement.

6.3 The liability of TDL and the Client will each be limited to £2,000,000 in total. This limit applies per Agreement and in aggregate for all Agreements made in a calendar year.

6.4 Neither TDL nor the Client will have any liability for:

6.4.1 loss of profit or revenue;

6.4.2 loss of anticipated savings;

6.4.3 loss of reputation or goodwill; or

6.4.4 indirect, special or consequential loss.

6.5 TDL will have no liability for any delay or failure in performance of the Services or provision of the Consumables arising from the Client's delay or failure in performing its obligations under the Agreement.

6.6 All of the warranties which TDL gives in relation to the Services and / or the Consumables are expressly set out in these Terms and Conditions. All other warranties, whether implied or express, are excluded from the Agreement where it is lawful to exclude them.

6.7 In this clause 6, references to TDL include the members of TDL's Group, and for the purpose of the limit in clause 6.3 the liabilities of TDL and the TDL Group Members will be counted in aggregate. The members of TDL's Group may enforce this clause 6.

7 FORCE MAJEURE

If the performance of any obligation under the Agreement (except for an obligation to pay) is prevented, restricted or interfered with by reason of circumstances beyond the reasonable control of that party obliged to perform it (a '**Force Majeure Event**'), the party so affected will be excused from any resulting failure or delay in performance, and the time for performance will be extended by an amount of time equal to the duration of the Force Majeure Event. The party so affected will use reasonable endeavours to mitigate the effect of the Force Majeure Event on its performance of its obligations. If the Force Majeure Event delays or prevents performance of a party's obligations for more than three months, either party may terminate the Agreement on written notice to the other.

8 DATA PROCESSOR AND DATA CONTROLLER

8.1 When TDL processes Protected Data on behalf of the Client in providing the Services the parties agree that the Client will be the controller and TDL will be the processor. The Annex to these Terms and Conditions sets out when TDL processes Protected Data on behalf of the Client. Clause 17 describes the circumstances where TDL will use Protected Data on its own behalf as controller.

8.2 When TDL processes Protected Data as processor, clauses 9 to 16 will apply in relation to the Protected Data. Where TDL processes Protected Data as controller, clause 17 will apply instead.

8.3 The Client will comply with the Data Protection Laws in relation to the Protected Data, and ensure that all instructions given by it to TDL in respect of Protected Data will at all times be in accordance with Data Protection Laws.

9 DATA PROCESSING INSTRUCTIONS

9.1 When TDL processes Protected Data as processor, TDL will comply with the obligations of processors under the Data Protection Laws.

9.2 Unless required to do otherwise by Applicable Law, TDL will (and will take steps to ensure each person acting under its authority will) process the Protected Data only in accordance with the Client's documented instructions as set out in the Order, pursuant to these Terms & Conditions, and in the Annex (the '**Processing Instructions**').

9.3 If Applicable Law requires TDL to process Protected Data other than in accordance with the Processing Instructions, TDL will notify the Client of any such requirement before processing the Protected Data (unless Applicable Law prohibits TDL from doing so).

9.4 TDL will promptly inform the Client if TDL becomes aware of a Processing Instruction that, in TDL's opinion, infringes Data Protection Laws. TDL will have no liability for any processing in accordance with those Processing Instructions after giving the notice. TDL's obligations under this clause 9.4 do not limit the Client's obligations under clause 8.3.

10 DATA SECURITY MEASURES

In relation to the processing of the Protected Data, TDL will implement and maintain, at its cost and expense, appropriate technical and organisational measures to ensure for the Protected Data a level of security appropriate to the risks presented by the processing, taking into account the state of the art, the cost of implementation and the nature, scope, context and purpose of the processing of the Protected Data, as well as the risk of varying likelihood and severity of the rights and freedoms of natural persons.

11 USING STAFF AND OTHER PROCESSORS

11.1 TDL will not engage any processor to process the Protected Data on the Client's behalf (a '**Sub-Processor**') without the Client's authorisation of that specific Sub-Processor. The Client will not unreasonably withhold, condition or delay such consent. By accepting these Terms and Conditions the Client authorises the appointment of the Authorised Sub-Processors.

11.2 TDL will ensure that each Sub-Processor is appointed under a written contract containing materially the same obligations as clauses 9 to 16 (inclusive).

11.3 TDL will ensure that all persons authorised to process Protected Data are subject to a binding obligation to keep the Protected Data confidential (except where disclosure is required in accordance with Applicable Law, in which case TDL will, where practicable and not prohibited by Applicable Law, notify the Client of any such requirement before such disclosure).

12 ASSISTANCE WITH THE CLIENT'S COMPLIANCE AND DATA SUBJECT RIGHTS

12.1 Taking into account the nature of the processing, TDL will implement and maintain reasonable measures to assist the Client to respond to the Data Subject Requests relating to the Protected Data that TDL processes on the Client's behalf. TDL will refer such Data Subject Requests it receives to the Client promptly, and in any event within five Business Days of receipt of the request.

12.2 TDL will provide such assistance as the Client reasonably requires (taking into account the nature of processing and the information available to TDL) to the Client in ensuring compliance with the Client's obligations under Data Protection Laws with respect to: (i) security of processing, (ii) data protection impact assessments, (iii) prior consultation with the relevant regulator regarding high risk processing, and (iv) notifications to the regulator and/or communications to data subjects by the Client in response to any Personal Data Breach. The Client will pay TDL's charges for providing the assistance in this clause 12, such charges to be calculated on a time and materials basis at TDL's applicable daily or hourly rates in force from time to time.

13 INTERNATIONAL DATA TRANSFERS

13.1 The Client agrees that TDL may transfer Protected Data to countries outside the United Kingdom for the purpose of providing the Services, provided all transfers by TDL of Protected Data to such recipients are in accordance with such safeguards or other mechanism(s) for transfers of personal data as may be permitted under the Data Protection Laws from time to time. The Client agrees that TDL may implement such safeguards by entering into standard data protection clauses authorised under the Data Protection Laws, subject to clause 13.2

13.2 Where the Client requires TDL to transfer Protected Data for the purpose of providing the Services to a country outside the United Kingdom which is not subject to an adequacy regulation under the Data Protection Laws (a **Third Country**) then:

13.2.1 the Client will enter into (or where relevant use reasonable endeavours to procure that the applicable third party recipient of the Protected Data enters into) standard data protection clauses with TDL authorised under the Data Protection Laws for the international transfer of personal data that provide sufficient safeguards for the relevant transfer, on terms acceptable to TDL (acting reasonably); and

13.2.2 where the data protection clauses referred to in clause 13.2.1 are not entered into, the Client will procure that prior to the transfer the relevant data subjects provide valid consent to the transfer for the purposes of the Data Protection Laws, and the Client will provide evidence of such consents to TDL on request.

14 RECORDS, INFORMATION AND AUDIT

14.1 TDL will maintain, in accordance with the Data Protection Laws binding on TDL, written records of all categories of processing activities carried out on behalf of the Client.

14.2 TDL will, in accordance with the Data Protection Laws, make available to the Client such information as is reasonably necessary to demonstrate TDL's compliance with its obligations as a processor under these Terms and Conditions and the Data Protection Laws and allow for and contribute to audits, including inspections, by the Client (or another auditor mandated by the Client) to the extent reasonably necessary for that purpose, subject to the Client:

14.2.1 giving TDL reasonable prior notice and in any event not less than 30 days' notice of such information request, audit and/or inspection required by the Client;

14.2.2 ensuring that all information obtained or generated by the Client or its auditor(s) in connection with such information requests, inspections and audits is kept strictly confidential (save for disclosure to the relevant regulator or as otherwise required by Applicable Law); and

14.2.3 ensuring that such audit or inspection is undertaken during normal business hours, with minimal disruption to TDL's business, any Sub-Processor's business and the business of other customers of TDL.

15 BREACH NOTIFICATION

TDL will, without undue delay, notify the Client of a personal data breach involving the Protected Data, and provide the Client with details of the personal data breach.

16 DELETION OR RETURN OF PROTECTED DATA AND COPIES

TDL will, at the Client's written request, either delete or return all of the Protected Data to the Client in such form as the Client reasonably requests within a reasonable time after the end of the provision of the relevant Services related to processing, and delete existing copies (unless storage of any data is required by Applicable Law, in which case TDL will inform the Client of any such requirement). Where TDL will process that Protected Data as controller under clause 17, TDL may retain the Protected Data.

17 PROTECTED DATA THAT TDL PROCESSES AS A CONTROLLER

17.1 TDL may process Protected Data as controller in the circumstances and for the purposes set out in TDL's Privacy Notice. In particular TDL may:

17.1.1 retain and submit the Protected Data to a Health Authority in the United Kingdom for the purposes of a Public Health Programme operated by that Health Authority, or to a regulator for the purpose of complying with regulatory obligations; and

17.1.2 retain and process Protected Data in its laboratory records in order to meet the requirements of the UKAS medical laboratory accreditation standard (ISO 15189) and implement the guidelines of the Royal College of Pathologists for the retention and storage of pathological records and specimens.

17.3 When TDL processes Protected Data to provide Non-Invasive Prenatal Tests, TDL does so as a controller.

17.4 When TDL processes personal data on its own behalf as controller, it will do so in accordance with the obligations of data controllers under the Data Protection Laws and with the applicable terms of the Agreement.

18 GENERAL

18.1 Disputes

18.1.1 If any dispute arises relating to the Agreement or any breach or alleged breach of the Agreement, the parties will make a good faith effort to resolve such dispute without recourse to legal proceedings. If, notwithstanding such good faith efforts, the dispute is not resolved either party may submit the dispute to the jurisdiction of the English Courts.

18.1.2 Except to the extent clearly prevented by the area of dispute, the parties will continue to perform their respective obligations in respect to any existing Agreements while such dispute is being resolved.

18.2 Variation

18.2.1 TDL may amend these Terms and Conditions by updating the Laboratory Guide and providing the Client with a copy of the update or publishing it on TDL's website. Such amendments will only apply to an Order submitted after the date of the update, and the Client will be deemed to accept those amendments by submitting an Order after that date.

18.2.2 Except as set out in clause 18.2.1, any amendments to the Agreement will not be effective unless in writing and signed by an authorised signatory on behalf of each of the parties. The terms of the Agreement may be varied by agreement of the parties but without the consent of any third party whether or not the rights of such third party are affected by such variation. The Client will not unreasonably withhold, delay or condition its agreement to any variation to the Agreement requested by TDL in order to ensure the Services and TDL (and each Sub-Processor) can comply with any change in Applicable Laws.

18.3 Rights and waiver

All rights granted to either of the parties will be cumulative and not exhaustive of any rights and remedies provided by law. The failure of either party to enforce (or delay in enforcing) at any time for any period any one or more of the terms of the Agreement will not be a waiver of such term or of the right of such party at any time subsequently to enforce all the terms of the Agreement.

18.4 Severability

If any provision of the Agreement is or becomes invalid, illegal or unenforceable in any respect under any law, the validity, legality and enforceability of the remaining provisions will not be in any way affected.

18.5 Sub-contracting and Assignment

TDL may assign or sub-contract the performance of the Agreement (in whole or in part) or any one or more of the Tests to be performed hereunder to any member of the TDL Group or any suitably accredited laboratories including those listed in the Laboratory Guide. The Client may not assign the Agreement or any of its rights or obligations hereunder without the prior approval of TDL.

18.6 Relationship of the parties

It is acknowledged and agreed that TDL and the Client are independent contractors and nothing in the Agreement will create or be construed as creating a partnership or a relationship of agent and principal between the parties. The Client acknowledges and agrees that, in requesting Services from TDL, it is not acting as agent for any patient or patients to which the Services relate.

18.7 Notices

All notices given under the Agreement will be in writing and will be delivered by hand or sent by prepaid first class post or by prepaid first class recorded delivery or by email transmission. All notices will be delivered at or sent, in the case of TDL, to: post The Halo Building, 1 Mabledon Place, London WC1H 9AX, email notices@tdlpathology.com and, in the case of the Client to the address and/or email address set out in the Order (or such other address as that party will notify in writing to the other for this purpose). A notice sent by post will be deemed to be served at 9.00 am on the second Business Day following the date of posting; a notice sent by email transmission will (provided the sender receives no error message indicating that delivery has been unsuccessful) be deemed to have been served at the time it is transmitted, if transmitted within business hours (9.00 am to 6.00 pm on a Business Day) or, if transmitted outside business hours, as soon thereafter as such business hours commence. This clause does not apply to the service of any proceedings or any documents in any legal action or, where applicable, any arbitration or other method of dispute resolution.

18.8 Entire agreement

The Agreement is the entire agreement between the Client and TDL and supersedes and extinguishes all prior and contemporaneous agreements, promises, assurances, discussions, representations and understandings between them, whether written or oral, relating to its subject matter. Each party acknowledges that it has not entered into the Agreement in reliance on, and will have no remedies in respect of, any statement, representation, assurance or warranty (whether made innocently or negligently) that is not expressly set out in the Agreement except in the case of fraudulent misrepresentation.

18.9 Third parties

The Agreement is not intended to create any rights for, nor be enforceable by, any third party except as set out in clause 6, and where the Client and The Doctors Laboratory Limited agree that these Terms and Conditions will apply to any Orders, that agreement is also for the benefit of and enforceable by TDL Genetics Limited.

18.10 Governing law

The Agreement and any dispute arising out of or in connection with it (including non-contractual disputes and claims) or its subject matter or formation will be governed by and construed in accordance with English law and each of the parties submits to the exclusive jurisdiction of the English Courts.

19 INTERPRETATION

19.1 In these Terms and Conditions and the Annex:

'Agreement' has the meaning given in clause 1.3;

'Annex' means the annex to the Terms and Conditions;

'Applicable Law' means the laws, regulations and judgments binding on the relevant party, as amended from time to time;

'Authorised Sub-Processors' means:

a) Health Service Laboratories LLP and any other member of the TDL Group which provides the applicable Test or Service;

b) accredited specialist centres for onward referral of esoteric assays as identified in the TDL Laboratory Guide;

c) persons who provide information technology services that TDL uses in the course of providing the Services; and

d) any Sub-Processor referred to in the Annex;

'Business Day' means a day other than a Saturday, Sunday, or public holiday in England;

'Client' means the person or organisation requesting Services and / or Consumables from TDL and for whom TDL has agreed to provide the Services and / or Consumables;

'controller', 'data subject', 'data protection impact assessment', 'personal data', 'personal data breach', 'process' and 'processor' have the meanings given to those terms in the Data Protection Laws;

'Consumables' means any goods to be provided by TDL in order for the Client to benefit from the Services;

'Data Protection Laws' means the UK GDPR, the Data Protection Act 2018, and any other Applicable Law having effect in the United Kingdom concerning privacy or the use of personal data;

'Data Subject Request' means a request made by a data subject to exercise any rights of data subjects under Data Protection Laws;

'Good Industry Practice' means the standard of skill and care reasonably to be expected from a professional provider of the Services;

'Group' in respect of any undertaking, means such undertaking and its group undertakings ('undertaking' and 'group undertaking' having the meanings given in the Companies Act 2006);

'Health Authority' means (i) a department of the UK government or of a devolved administration, (ii) an executive agency of such department, or (iii) a body exercising statutory functions in relation to public health in the UK or any part of the UK;

'Laboratory Guide' means TDL's Laboratory Guide current at the time the Client submits the Order, as supplied to the Client or, if not so supplied, available on request from TDL, including any updates or supplements issued by TDL;

'Order' has the meaning given in clause 1.2;

'Pathology Request' means a request for Testing submitted by the Client in a format TDL accepts from time to time and by any of the methods TDL accepts from time to time, whether in hard copy or via one of TDL's electronic portals;

'Privacy Notice' means TDL's detailed Privacy Notice available at tdlpathology.com;

'Processing Instructions' has the meaning given to that term in paragraph 8.2;

'Protected Data' means personal data provided to TDL by the Client or a third party on the instructions of the Client, or collected or generated by TDL in the course of providing the Services or Consumables;

'Public Health Programme' means a programme administered by a Health Authority to monitor or analyse health data for the purpose of public health or for statistical, scientific or research purposes in the public interest;

'Sample' means a pathology sample provided by the Client to TDL for Testing;

'Services' means the services to be provided under the Agreement;

'Sub-Processor' has the meaning given in clause 11.1;

'TDL' means (i) The Doctors Laboratory Limited or, (ii) TDL Genetics Limited in the case of services offered under the TDL Genetics name;

'TDL Group' means TDL Genetics Limited and The Doctors Laboratory Limited and its Group and Health Service Laboratories LLP and its Group;

'Test' means a laboratory test to be carried out by TDL on a Sample, and 'Testing' means the process of conducting that Test and reporting the results;

'UKAS' means the United Kingdom Accreditation Service, or any successor to it;

'UK GDPR' has the same meaning as it does in section 3(10) of the Data Protection Act 2018, read with section 205(4) of that Act.

19.2 References to the singular include the plural and vice versa.

19.3 Clause headings and paragraph headings are for ease of reference only and are not part of these Terms and Conditions for the purpose of construction.

19.4 References to paragraphs are to paragraphs of the Annex.

19.5 Words following the terms 'including', 'include', 'in particular', 'for example' or any similar expression shall be construed as illustrative and shall not limit the sense of the words preceding those terms.

19.6 The Annex is incorporated into these Terms and Conditions.

ANNEX

1 Subject matter and nature of processing

1.1 TDL processes Protected Data as processor on behalf of the Client:

1.1.1 in the case of Testing, when TDL receives a Pathology Request and Sample and processes the corresponding Protected Data to carry out the Test and report the Test results in accordance with the Processing Instructions;

1.1.2 when TDL carries out the Client's 'fee to patient' instructions, as described below; and

1.1.3 in the case of any other Services or the provision of Consumables, when TDL is required to process Protected Data on the Client's behalf to fulfil the Client's instructions.

1.2 The subject matter and nature of TDL's processing of the Protected Data are:

1.2.1 Samples and Test results for the purpose of providing clinical pathology Services;

1.2.2 information about clinicians who order Tests, for the purposes of reporting the Test results to the Client;

1.2.3 information about a patient's health insurance for the purposes of administering payment for the Services; and

1.2.4 billing information for a patient where the Client has asked TDL to direct TDL's invoice to the patient.

2 Duration of processing

The duration of the processing is the time necessary to carry out the Services or provide the Consumables.

3 Types of personal data

3.1 The Protected Data may comprise the following types of personal data:

3.1.1 name

3.1.2 gender

3.1.3 date of birth

3.1.4 address

3.1.5 identity numbers assigned by TDL or the Client

3.1.6 types of Tests conducted

3.1.7 results of Tests

3.1.8 health insurance policy details

3.1.9 billing information

3.1.10 the types of data referred to in the TDL Laboratory Guide

4 Categories of data subjects

The Protected Data concerns patients in respect of whom TDL conducts Tests, and clinicians who request Tests.

5 Reporting Test results

5.1 TDL will report Test results using the method selected by the Client from the range of options offered by TDL or, if no method is selected by the Client, using a method selected by TDL from that range of options.

5.2 TDL will report the Test results using the contact details supplied to TDL in the relevant section of the Pathology Request. The Client will be responsible for ensuring that those contact details are correct.

5.3 Where TDL supplies Test results electronically it will ensure that the results are supplied in the format selected by the Client (from the range of options offered by TDL) and are supplied to the address indicated when the Client selects electronic results reporting. The Client will be responsible for ensuring that the selected format is compatible with the Client's information systems and for making the results available to the users of those systems.

6 Fee to patient

Where the Client selects the 'fee to patient' option in a Pathology Request form, the Client instructs TDL to seek payment from the patient of the fees owed by the Client in respect of that test. The Client confirms that the patient has agreed with the Client to pay those fees to TDL for the Client. The Client instructs TDL to recover the fees by invoicing the patient using the personal data provided by the Client. The Client instructs TDL on the Client's behalf to appoint debt collectors to recover the fees from the patient if the patient does not pay the invoice by the date payment falls due. The Client authorises TDL to appoint those debt collectors as Sub-Processors in accordance with clauses 9 to 16.

SERVICE-SPECIFIC TERMS OF THE DOCTORS LABORATORY FROM 1ST JAN 2025 FOR HISTOPATHOLOGY SERVICES

The definitions which apply to these Service-Specific Terms are set out in clause 6.

1 THE HISTOPATHOLOGY SERVICES

1.1 These Service-Specific Terms apply to any histopathology Services that the Client places an Order for, including any support for histopathology cases at multidisciplinary team ('MDT') meetings or preparation and investigation of frozen sections.

1.2 These Service-Specific Terms are in addition to the Terms and Conditions.

1.3 In the event that TDL's pathologist reasonably determines that it is necessary for a histopathology Sample to be referred for additional analyses (including special staining, immunohistochemistry and molecular diagnostics), the Test Turnaround times referred to in the Terms and Conditions will not apply and instead TDL will carry out the necessary analyses as soon as reasonably possible. TDL will use reasonable endeavours to inform the requesting clinician that additional analyses have been requested on that Sample.

1.4 Where a Client requests an Urgent Test, TDL will use reasonable endeavours to contact the referring clinician promptly to provide the initial and supplementary reports as required.. The Client is responsible for ensuring that TDL is notified when the Client considers that a Test is Urgent. TDL reserves the right to suspend this aspect of the Service if it considers that the Client is sending an unreasonable number of Urgent Tests and the position cannot be resolved through good faith discussions between the parties within 30 days. '**Urgent**' means a Test which has been marked as urgent in the manner and under any conditions that TDL informs the Client that Tests may be marked as urgent.

1.5 TDL will use reasonable efforts to make its pathologists available on reasonable notice to discuss histopathology Test results and Reports with the Client.

1.6 The Client acknowledges and agrees that TDL's consultants may report on Samples by remotely reviewing digital images, provided that TDL will adopt Good Industry Practice in the production and review of such images.

2 STORAGE

2.1 TDL will store the Samples in accordance with the guidelines of the Royal College of Pathologists for the retention and storage of pathological records and specimens.

3 SUPPORT FOR MULTIDISCIPLINARY TEAM MEETINGS

3.1 TDL will, where agreed between the parties, provide the Sample slides and/or images and the relevant Report and associated documentation (together the 'Sample Information') at the relevant MDT meeting, provided that the Client:

3.1.1 in relation to Sample Information which has been tested less than six months ago: requests the Sample Information no less than two Business Days in advance of the date of the MDT meeting where the Sample Information is needed;

3.1.2 in relation to Sample Information which has been tested six months or more ago: requests the Sample Information no less than three weeks in advance of the date of the MDT meeting where the Sample Information is needed.

3.2 TDL will, where between the parties, arrange for a pathologist to attend and participate in MDT meeting(s) at the Client's request, provided that:

3.2.1 the request for the pathologist to attend the MDT meeting is made no less than 10 Business Dats in advance of the date of that MDT meeting;

3.2.2 where the pathologist is asked to attend and participate in an MDT meeting which relates to a Sample that the pathologist did not personally review or a Report that they did not personally provide, there will be an additional cost to be agreed by the parties in advance of the pathologist's attendance at the MDT meeting.

4 FROZEN SECTIONS

4.1 If the Client wishes TDL to provide a frozen section Service, the Client must submit an Order for that Service no less than 10 Business Days in advance of the requested start date for the Service. The Client's Order must include details of the case and the clinical purpose of the frozen section, for example the margin clearance, the location where the Service is to be provided, whether the Client requires TDL to provide a cryostat and consumables, and any other information TDL reasonably considers necessary.

4.2 Where TDL provides a cryostat or other equipment or consumables in the course of the Service ('**TDL Equipment**'), title in the TDL Equipment will remain with TDL or TDL's lessor. Risk in the TDL Equipment will pass to the Client when TDL completes the delivery and (where relevant) installation of the equipment at the Client's Facility (as defined below) and will pass back to TDL when TDL removes the TDL Equipment from the Client's Facility. The Client will not permit any

person to use, move or modify the TDL Equipment, except a person authorised by TDL. The Client will indemnify TDL against any costs, claims, damage or loss arising from the loss, theft or destruction of, or damage to, the TDL Equipment which occurs whilst risk in the TDL Equipment lies with the Client, except to the extent caused by TDL or TDL's personnel.

4.3 Where TDL has not agreed to provide a cryostat or other equipment or consumables necessary for performing the frozen section Service, the Client will be responsible, at its own cost, for providing those items for TDL to use. Title and risk in a cryostat or other equipment or consumables provided by the Client ('**Client Equipment**') will remain with the Client. The Client will ensure that the Client Equipment is fit for the purpose of providing the Services at all times, provided that the Client will not be liable for any failure in the Client Equipment caused by TDL or TDL's personnel.

4.4 Where the Client Orders a frozen section Service the Client will:

4.4.1 provide at the location where the Service is to be provided a room with a suitable water supply, sink and power supply, and access to a rest area and bathroom facilities for TDL personnel providing the Services at the location (the '**Facility**'). The Client will provide this Facility free of charge for the duration of the Services and a reasonable time after the end of the Services to allow TDL to recover any TDL Equipment from the Facility;

4.4.2 TDL has the right to decline to provide this Service with no liability to the Client if the Facility is not to TDL's reasonable satisfaction and/or the Facility does not meet the UKAS accreditation standard ISO15189;

4.4.3 ensure that the cryostat and associated Consumables and the Facility it is in are suitable for the purpose of TDL providing the Services required by the Client, to TDL's reasonable satisfaction;

4.5 TDL will provide a suitably skilled and experienced biomedical scientist at the Facility to prepare the Samples, including preparing glass slides during the frozen section procedure.

5 PRICING

5.1 The price payable by the Client for the Services will be the price agreed between the parties. If the Client submits an Order before the price has been agreed, TDL will not carry out the Services and will not be responsible for the Sample.

6 INTERPRETATION

6.1 In these Service-Specific Terms, any expressions defined in the Terms and Conditions and used in these Service-Specific Terms have the meaning set out in the Terms and Conditions.

6.2 In these Service-Specific Terms the 'Terms and Conditions' means the most recent version of the Terms and Conditions of Business of The Doctors Laboratory published on TDL's website.

Request forms

Visit the TDL website to download:

- TDL Request Form
- Maternal Screening Request Form: For Down, Edwards and Patau Syndromes screening
- Leukaemic Studies Request Form (Cytogenetics/Molecular genetics)
- Genetic Request Form
- TDL Supplies Re-order Form

SCAN ME

Download TDL Request Forms from:

www.tdlpathology.com/tests/request-forms/

Vacutainer	Anticoagulant	Capacity	SAMPLE TYPE
Lavender	EDTA	4ml / 6ml*	A
Gold	SST/Gel	5ml	B
Light blue	Citrate	4.5ml	C
Red	None	6ml	F
Grey	Fluoride oxalate	2ml, 4ml	G
Green	Lithium heparin	6ml	H
Dark blue	Trace metal	7ml	K

* 6ml EDTA tubes are used for specific PCR assays

Blood culture bottle: contact laboratory	**BC**
Contact laboratory for advice on sample taking	**J**
Test by appointment	**X**
Random faeces	**RF**
Faecal collection	**LF**
Random urine	**RU**
Mid stream urine	**MSU**
First catch random urine (for DL12/Chlamydia, etc.)	**FCRU**
30ml aliquot from a 24 hour urine collection – state total volume	**CU**
30ml aliquot from a 24 hour urine collection with 10ml of 0.1N hydrochloric acid added – state total volume	**PU**
Early morning urine (1st sample of the day)	**EMU**
60ml container (sterile)	**SC**
Cytyc thin prep vial	**TPV**
Orange/Blue swab for culture – swab in transport medium/Blue microswab	**STM**
Black charcoal swab	**CS**
Green viral swab	**VS**
PCR swab for Chlamydia/PCR infection screening	**PCR**
Tap/bottled water mouth wash – 20mls	**MW**
Ammotic fluid (5mls PCR – 10mls Karyotype)	**AF**
Chorionic villus (medium provided by laboratory)	**CVS**
Urine cytology container	**UCYT**

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