

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



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ISO 15189:2022

### York and Scarborough Teaching Hospitals NHS Foundation Trust

Issue No: 025 Issue date: 19 June 2025

Pathology Department  
Pathology Building  
Hull Royal Infirmary  
Anlaby Road  
Hull  
HU3 2JZ

Contact: Dave Oglesby  
Tel: +44 (0)148 260 7722  
E-Mail: david.oglesby@nhs.net  
Website: www.hey.nhs.uk

Testing performed by the Organisation at the locations specified below

#### Locations covered by the organisation and their relevant activities

Location details		Activity	Location code
<b>Address</b> Pathology Laboratory Hull Royal Infirmary Anlaby Road Hull HU3 2JZ	<b>Local contacts</b>  Jennifer Williams Jennifer.williams69@nhs.net  Jennifer Fulthorpe j.fullthorpe@nhs.net  Carl Burkinshaw Carl.burkinshaw1@nhs.net  Angela Carling angela.carling@nhs.net  Mark Hajjawi mark.hajjawi@nhs.uk  Lisa Mead: lisa.mead2@nhs.net	Haematology  Blood Transfusion  Automated Biochemistry  Cellular Pathology  Specialist Biochemistry and Immunology  Microbiology and Virology	A
<b>Address</b> Pathology Laboratory Castle Hill Laboratory Castle Hill Hospital Castle Road Cottingham HU16 5JQ	<b>Local contact</b>  Jannene Sanders Jannene.sanders@nhs.net  Carl Burkinshaw Carl.burkinshaw1@nhs.net	Haematology  Biochemistry	B



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**Site activities performed away from the locations listed above:**

Location details	Activity	Location code
<b>Address</b> Women's and Children's Hospital Hull Royal Infirmary Anlaby Road Hull HU3 2JZ  <b>Local contact</b> Amanda Burns Amanda.burns8@nhs.net Tel: 01482 607791	Blood storage & issue only Management of Women's and Children's theatre fridge	A
<b>Address</b> Hull Royal Infirmary Anlaby Road Hull HU3 2JZ  <b>Local contact</b> Amanda Burns Amanda.burns8@nhs.net Tel: 01482 607791	Blood storage & issue only Management of Tower Block blood fridge	A
<b>Address</b> Queen's Centre Castle Hill Hospital Castle Road Cottingham HU16 5JQ  <b>Local contact</b> Amanda Burns Amanda.burns8@nhs.net  Tel: 01482 607791	Blood storage & issue only Management of Day unit blood fridge Management of Cardiology Unit blood fridge	B
<b>Hospital Wards</b> Hull Royal Infirmary Anlaby Road Hull HU3 2JZ  <b>Local contact</b> Alex Clubley alexandra.clubley@nhs.net Tel: 01482 607726	Point of Care Testing Clinical Chemistry	C
<b>Hospital Wards</b> Castle Hill Hospital Castle Road Cottingham HU16 5JQ  <b>Local contact</b> Alex Clubley alexandra.clubley@nhs.net Tel: 01482 607726	Point of Care Testing Clinical Chemistry	D
<b>Adult outpatients Clinic</b> East Riding Hospital Swinemoor Lane Beverley HU17 0FA  <b>Local contact</b> Alex Clubley alexandra.clubley@nhs.net Tel: 01482 607726	Point of Care Testing Clinical Chemistry	E



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u>	Manufacturer's instructions and documented In-house methods using:	A
Whole Blood: EDTA samples Red cells and plasma	Blood Grouping <ul style="list-style-type: none"> <li>A B O</li> <li>Rhesus D status</li> </ul>	Glass microbead column technology using Ortho Vision analysers  SOP BT/GR/001  Glass microbead column technology using manual Ortho BioVue methods  SOP BT/GR/004	
Plasma	Red cell Antibody Screening	Glass microbead column technology using Ortho Vision analysers	
	Antibodies of the following systems: <ul style="list-style-type: none"> <li>Rhesus</li> <li>Kell</li> <li>Duffy</li> <li>Kidd</li> <li>MNSs</li> <li>P</li> <li>Lutheran</li> <li>Lewis</li> </ul>	SOPBT/GR/001 & BT/SP/001  Glass microbead column technology using manual Ortho BioVue methods  SOP BT/SP/001 & BT/GR/004	
	Compatibility Testing <ul style="list-style-type: none"> <li>Manual testing of patient plasma and donor red blood cells.</li> </ul>	Glass microbead column technology using manual OrthoBioVue.  SOP BT/XM/001	



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>Manufacturer's instructions and documented In-house methods using:</u>	A
Red cells	Direct anti-globulin test	Glass microbead column technology using Ortho Vision analysers  SOP BT/SP/002 & BT/GR/001  Glass microbead column technology using manual Ortho BioVue methods  SOP BT/SP/002	
Red cells	Rhesus phenotype and Kell type to include the specific antigens: D, C, c, E, e, K	Glass microbead column technology using: Ortho Vision analysers SOP BT/SP/004	
Red cells	Kleihauer test for estimation of foetal-maternal haemorrhage	Manual modified Kleihauer-Betke method. SOP BT/SP/005 & BT/SP/006	
	<u>Coagulation examination activities for the purpose of clinical diagnosis</u>	Manufacturer's instructions and documented In-house methods using:	
Plasma (tri-sodium citrate)	Blood Coagulation  Prothrombin time Activated partial Thromboplastin time using Actin FS, Actin FSL and Pathromtin Clauss Fibrinogen Thromboplastin time Fibrinogen Thrombin time INR for warfarin therapy APTT/APTR for Heparin monitoring  Reptilase time Mixing tests	Sysmex Coagulation Auto Analyser  Optical clot detection  SOP HA/G/501 Routine coagulation       SOP HA/G/501 Routine coagulation	



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HUMAN BODY FLUIDS (cont'd)	<u>Coagulation examination activities for the purpose of clinical diagnosis (cont'd)</u>	Manufacturer's instructions and documented In-house methods using:  Sysmex Coagulation CN6000 and CN3500	A
Plasma (tri-sodium citrate)	D-Dimer	Immunoassay HA/G/501	
	Anti-Xa levels	Chromogenic detection SOP HA/G/501 Routine coagulation	
	Factor's: VII IX XI XII V X II VIII	Clot based optical assay SOP HA/G/503 Coagulation laboratory specialist	
	Lupus anticoagulant	Clot based optical assay SOP HA/G/503 Coagulation laboratory specialist	
	Von Willebrand factor antigen Von Willebrand factor activity	Latex base turbidometric assay SOP HA/G/503 Coagulation laboratory specialist	
	Inhibitor Screen and Bethesda Assay		
	Chromogenic Factor VIII	Chromogenic Assay SOP HA/G/503 Coagulation laboratory specialist	
	<u>Emicizumab Drug Concentration</u>	Clotting assay SOP HA/C/115 Emicizumab Drug Concentration Assay	



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis</u>		
Whole blood in EDTA	<p>Full Blood count:</p> <ul style="list-style-type: none"> <li>• Haemoglobin</li> <li>• Red Blood Cells</li> <li>• Platelet count</li> <li>• Haematocrit</li> <li>• Mean cell volume</li> <li>• Mean cell haemoglobin</li> <li>• Red cell distribution width</li> <li>• White cell count</li> <li>• White Cell Differential</li> <li>• Neutrophils</li> <li>• Lymphocytes</li> <li>• Monocytes</li> <li>• Eosinophils</li> <li>• Basophils</li> </ul> <p>Reticulocyte count (including immature reticulocyte fraction and haemoglobin content)</p>	<p>Sysmex XN series (XN-9000 HRI and XN-3100 CHH)</p> <p>SOP HA/G/500 Routine Haematology</p> <p>HA/H/401 Sysmex XN Series – Operation Procedures.</p>	A, B



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Manufacturer's instructions and documented In-house methods using:	
Whole blood in EDTA	Detection of Nucleated red cell count	Manual slide preparation and manual microscopy – May-grunwald Giemsa stain  SOP HA/G/500 Routine Haematology	A
	Identification of normal and abnormal morphologies including WBC differential count	Sysmex SP-50 automated slide preparation and manual microscopy May-grunwald Giemsa stain  Manual slide preparation and manual microscopy – May-grunwald Giemsa stain  SOP HA/G/500 Routine Haematology	A  A
	Malaria screening for: <i>P. falciparum</i> <i>P. vivax</i> <i>P. ovale</i> <i>P. malariae</i> <i>P. knowlesi</i>	Thick and thin films  Giemsa stain and manual microscopy  Apacor Care US Malaria Rapydtest kit SOP HA/H/413 Routine Haematology	A
Bone marrow aspirate slides	Reporting of normal and abnormal morphologies	MGG stain using Mirastainer II	
Whole blood in EDTA	Blood film morphology	DI-60 Digital morphology platform and Cellavision client software	A
Whole blood in EDTA, serum, plasma	Detection of infectious mononucleosis heterophile antibodies	Clearview IM II test chromatographic immunoassay kit  SOP HA/G/500 Routine Haematology	A



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Manufacturer's instructions and documented In-house methods using:	
Plasma from Whole blood in EDTA	Infectious mononucleosis screen – presence of heterophile antibodies	Dialab DIAQUICK Infectious Mononucleosis Screening cassette using lateral flow technology SOP HA/S/064  Documented in-house methods to meet the requirements of the Sickle Cell and Thalassaemia (SCT) screening programme as defined in the 'NHS Sickle Cell and Thalassaemia Screening Programme: laboratory QA evidence requirements.'	A
Whole blood in EDTA	Antenatal Haemoglobinopathy screening: Detection of haemoglobin variants: HbA2 HbF HbS.	Automated HPLC using TOSOH G11 HA/SOP/HU-34	A
Whole blood in EDTA	Quantitation of HbA2, HbF levels and determine the presence of variant haemoglobins		
Whole blood in EDTA	Identification of presence of sickling haemoglobin variant	SICKLEDEX reagent and Sickle-Chex controls, tube-based oxygen reduction turbidity test HA/S/004 SICKLEDEX Sickle Solubility	A
Whole blood in EDTA	Determine the presence of variant haemoglobins – HbA, HbF, HbS, HbC	Sebia HYDRASYS 2 using acid and alkaline gel electrophoresis, migration and staining HA/S/065 - Gel Electrophoresis for Haemoglobinopathies	A
Whole blood in EDTA	Detection of G6PD	Trinity G6PDH reagent, fluorescent monospot test HA/S/063 G6PD	





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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	Documented in house methods and manufacturer's instructions for analysis using Beckman AU5800 (HRI) and Beckman AU 680 (CHH)	
Serum/plasma	Quantitative determination of: ALT(IFCC) ALP(IFCC) AST CK NAC Ethanol Glucose hexokinase LDH (L-P) IFCC Urea STAT	Kinetic UV Colorimetric  BI/AU/001 BI/A12/012	A, B
Serum/plasma/urine		Immunoturbidimetric	
Serum	Alpha-1-antitrypsin	BI/AU/001	A
CSF/Urine	UALB Albumin in CSF and Urine		
Serum/plasma	B2 Microglobulin C3/C4 Complement C-Reactive Protein Haptoglobin IgA IgG IgM Rheumatoid Factor Transferrin Vancomycin		A, B A



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activates for the purposes of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for analysis using Beckman AU5800 (HRI) and Beckman AU 680 (CHH)	
Serum/Plasma	Quantitative determination of:  Albumin BCP	BCP Dye-Binding Colorimetric  BI/AU/001, BI/A12/012  Kinetic Colorimetric	A, B
Serum/plasma/urine/ Serum/plasma	Alpha-amylase Gamma- Glutamyltransferase Total Bile Acids	   Direct enzymatic	A
Plasma	Ammonia (GLDH)	BI/AU/001, BI/A12/012  Enzyme immunoassay	
Urine	Amphetamine/Ecstasy	BI/AU/001, BI/A12/012	
Serum/plasma	Benzodiazepines		
Urine	Carbamazepine		
	Methadone metabolite		
	Gentamicin		
	Methotrexate		
Serum/plasma	Morphine/codeine/ heroin		
	Phenobarbital		
	Phenytoin		
Urine	THC Cannabis		
Serum/plasma	Theophylline		
	Valproic Acid		



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activates for the purposes of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for analysis using Beckman AU5800 (HRI) and Beckman AU 680 (CHH)	
Serum/plasma	Angiotensin Converting Enzyme (ACE)	Enzymatic	A
Serum/plasma	Bicarbonate	BI/AU/001, BI/A12/012	A, B
Serum/plasma/urine	Cholesterol (CHOD-PAP)		A
Serum/plasma	Creatinine enzymatic		
	Fructosamine		
	HDL -Cholesterol		
	Lactate		
	Salicylate Acid		
Serum/plasma	Triglyceride		
Serum/plasma/urine	Uric Acid		
		Photometric /colorimetric	A, B
Serum/plasma/urine	Calcium (Arsenazo)	BI/AU/001, BI/A12/012	A
Serum/plasma	Direct Bilirubin		
	Inorganic phosphate		
	Iron (TPTZ)		
	Lithium		
Serum/plasma	Magnesium		
Urine/CSF	Total Protein		
	Protein		
		Indirect ISE	A, B
Serum/plasma/urine	Chloride	BI/AU/001, BI/A12/012	
	Potassium		
	Sodium		



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activates for the purposes of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for analysis using Beckman AU5800 (HRI) and Beckman AU 680 (CHH)	
Serum/plasma	Digoxin	Immuno-inhibition BI/AU/001, BI/A12/012 Colorimetric	A
Serum/plasma	Total Bilirubin	BI/AU/001, BI/A12/012	A, B
Serum	Paracetamol	Enzyme immunoassay BI/AU/001	A
	Tobramycin	Beckman UniCel DXi 800 (Magnetic particle based Chemiluminescence)	
	TSH	BI/S/700	
	FT4		
	FT3		
	Anti TPO		
	Cortisol		
	FSH/LH		
	Prolactin		
	Progesterone		
	Oestradiol		
	Testosterone		
	DHEA		
	AFP		
	CA125		
	CA153		
	CA199		
	CEA		
	PSA		
	HCG		
	B12		
	Folate		
	Ferritin		



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activates for the purposes of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for analysis using:	A
Serum/plasma	ACTH Trop T (high sensitivity) Pro BNP P1NP	Roche Cobas e411(Magnetic particle based Chemiluminescence) BI/S/414	
Serum/plasma	Human growth hormone (Hgh) IGFBP-3 IGF-1  Vitamin A Vitamin E	IDS-isys (Magnetic particle based Chemiluminescence) BI/S202  Phadia Unicap 250 BI/M19	



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activates for the purposes of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for analysis using:	A
Urine	Toxicology Confirmation of the following: Morphine 6-Monoacetylmorphine Morphine Glucuronide Codeine Dihydrocodeine Acetyl codeine Amphetamine Methamphetamine Methylenedioxymetamfetamine (MDMA) Methylenedioxyamfetamine (MDA) Cocaine metabolite (benzoylecgonine) Pholcodine Oxycodone Tramadol Meconin Methadone Methadone metabolite (EDDP)	Waters Acquity Tandem Quadruple TQD (Tandem Mass Spectrophotometry)  BI/M/60	
	Buprenorphine/ Norbuprenorphine Cortisol Drug Screening (Chromalynx)	BI/M/TOX/131  BI/M/60 BI/G3	



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activates for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for analysis using:	A
Serum/plasma	Tacrolimus/FK506 Ciclosporin	Waters Acquity Tandem Quadruple Micromass Quattro XE Mass (Tandem Mass Spectrophotometry)  BI/M/043	
	Testosterone and Androstenedione Vitamin D	BI/M/42  BI/M/52	
Serum/plasma	Trace Metals: Copper Zinc Selenium	Agilent 220FZ/220Z (Atomic Absorption spectrophotometry)  BI/M/AA/007 BI/M/AA/007 BI/M/AA/011	
Whole blood	Lead	Lead BI/M/AA/008  Helena SAS-3	
CSF	Xanthochromia	Northstar BIO-UV (Spectrophotometry) BI/M/022  Advanced Instrument Osmometer 3320 (freezing point osmometry)	
Serum/plasma/urine	Osmolality	BI/M/002	
Sweat	Chloride	Sherwood 926 Chloride meter BI/M/016	
Faeces	FIT - Faecal immunochemical testing - Haemoglobin	HM-KACKarc BI/S613	



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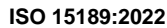
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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activates for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for analysis using:	A
Urine	Urine oxalate	Manual test: Colorimetric  BI/M/006	
Faeces	Paraquat	BI/M/TOX/013  ELISA Schebo Pancreatic Elastase kit	
Urine	Calculated Tests (data from primary tests, primary test sample requirements listed under that test)	BSI/167	
Urine	24hr Urine Calcium		
Urine	24hr Urine Creatinine		
Urine	24hr Urine Phosphate		
Urine	24hr Urine Potassium		
Urine	24hr Urine Sodium		
Urine	24hr Urine Uric Acid		
Urine	Albumin: Creatinine Ratio		
Urine	Protein: Creatinine Ratio		
Serum	Calcium, adjusted		
Urine	Calcium: Creatinine Excretion Ratio		
Urine	Calcium: Creatinine Ratio		
Serum and urine	Creatinine Clearance (L/24hr)		
Serum and urine	Creatinine Clearance (mL/min)		
Serum	eGFR (CKD-EPI)		
Serum	Non-HDL Cholesterol		







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<p><b>HUMAN BODY TISSUE SAMPLES</b></p> <p>Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens</p>	<p><u>Histopathology &amp; Neuropathology</u></p> <p>Routine Histopathology &amp; Neuropathology examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis</p>	<p>Documented in house methods and manufacturer's instructions for analysis using:</p> <p>Macroscopic and Microscopic examination:</p> <p>SOP HP/PROC/0102 and as appropriate to specimen type:</p> <p>General specimens Cardiothoracic GIT and Liver Gynaecological Head and Neck Skin Soft Tissue and Bone Urology Breast Central and peripheral nervous system Ophthalmic</p> <p><u>Specimen dissection &amp; tissue processing</u></p> <p>Documented in-house procedure SOP HP/PROC/0200 in conjunction with manufacturer's instructions for Peloris II &amp; Leica ASP 300 tissue processors</p> <p><u>Tissue Embedding</u></p> <p>Documented in-house procedure SOP HP/PROC/0300 in conjunction with manufacturer's instructions for Leica EG1160, Leica Histocore Arcadia and Medite tissue embedding centres</p>	A



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<p><b>HUMAN BODY TISSUE SAMPLES (cont'd)</b></p> <p>Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens</p> <p>DIF: Skin, renal and buccal mucosa biopsy</p> <p>Frozen sections</p> <p>Intra-operatives: Central and peripheral nervous system.</p>	<p><u>Histopathology &amp; Neuropathology (cont'd)</u></p> <p>Routine Histopathology &amp; Neuropathology examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis</p> <p>Diagnostic Frozen sections and Intra-operatives – frozen / smears</p>	<p>Documented in house methods and manufacturer's instructions for analysis using:</p> <p><u>Tissue Sectioning</u></p> <p>Documented in-house procedure SOP HP/PROC/0400. Sections are produced on microtomes; Leica RM2235, Leica RM2135 and Leica Histocore Biocut.</p> <p>Direct immunofluorescence</p> <p>HP/PROC/0802 Direct Immunofluorescence Technique (DIF)</p> <p>HP/PROC/0803 DIF Antibody Dilutions</p> <p>HP/PROC/0819 Preparation of Intra-Operative Smears</p> <p>HP/PROC/0815 Frozen Section Procedure</p> <p>Documented in-house procedure SOP HP/PROC/0800 (special techniques) in conjunction with manufacturer's instructions for the Leica cryostat CM1900 and CM1850</p> <p><u>Staining</u></p> <p>Automated Routine Stains</p>	A



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<b>HUMAN BODY TISSUE SAMPLES (cont'd)</b> Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens	<u>Routine Histopathology &amp; Neuropathology examination</u> activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis	Documented in-house procedure SOP HP/PROC/0500 in conjunction with manufacturer's instructions for & Leica Autostainer XL and Dako Coverstainer	A
	Nuclei and other cellular components	Haematoxylin & Eosin HP/PROC/0804 & HP/PROC/0612 manual and HP/PROC/0500 automated  Manual Special Stains:  Documented in-house procedure SOP HP/PROC/0600.	
	Acid mucins, elastic fibres & connective tissue	Alcian Blue EVG (Millers) (HP/PROC/0637)	
	Acid and neutral mucins	Alcian Blue PAS & Diastase (HP/PROC/0603)	
	Acid mucopolysaccharides	Alcian Blue pH 2.5 (HP/PROC/0604)	
	Amyloid	Congo Red (HP/PROC/0606)	
	Elastic fibres	Elastic van Gieson (Millers) (HP/PROC/0608)	
	Protozoans	Giemsa (HP/PROC/0609)	
	Gram +/- organisms	Gram (HP/PROC/0610)	
	Fungi	Grocott Gomori (HP/PROC/0611)	
	Haemosiderin	Iron (Perls Prussian Blue) (HP/PROC/0613)	
	Basement membrane	Jones Methenamine Silver (HP/PROC/0614)	



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HUMAN BODY TISSUE SAMPLES (cont'd) Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens	<u>Routine Histopathology &amp; Neuropathology examination activities:</u> Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for analysis using:	A
	Nuclei and other cellular components (cont'd)	Haematoxylin & Eosin HP/PROC/0804 & HP/PROC/0612 manual and HP/PROC/0500 automated	
	Melanin	Masson-Hamperl (HP/PROC/0617)	
	Connective tissue	Masson's Trichrome (HP/PROC/0618)	
	Melanin	Melanin Bleach (HP/PROC/0619)	
	Fibrin	MSB (HP/PROC/0621)	
	Hepatitis B and copper – associated protein	Orcein (Shikata's) (HP/PROC/0623)	
	PAS +ve substances e.g.: glycogen (and cells of pituitary) and fungi	Periodic Acid Schiff, (HP/PROC/0624)	
	Reticulin fibres	Reticulin (Gordon and Sweet) (HP/PROC/0626)	
	Amyloid	Sirius Red (HP/PROC/0627)	
	Metachromatic substances	Toluidine blue (HP/PROC/0630)	
	Connective tissue	Van Gieson (HP/PROC/0632)	
	Calcium	Von Kossa (HP/PROC/0633)	
	Spirochetes	Warthin Starry (HP/PROC/0634)	
	Tubercle bacilli (TB)	Ziehl – Neelsen (HP/PROC/0635)	
	Mycobacterium leprae bacilli	Wade fite modified ZN (HP/PROC/0639)	



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<p><b>HUMAN BODY TISSUE SAMPLES (cont'd)</b> Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens</p> <p>FFPE slides (formalin fixed paraffin embedded) and frozen sections</p> <p>Human Body Tissue Samples</p>	<p><u>Routine Histopathology &amp; Neuropathology examination activities:</u> Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)</p> <p>Molecular Diagnostic examination activities: Examination of tissues to identify or exclude mutations within DNA for the purpose of clinical diagnosis, prognosis and treatment options.</p> <p>NRAS/BRAF KRAS EGFR BRAF MSI</p>	<p>Documented in house methods and manufacturer's instructions for analysis using:</p> <p>Interpretive/diagnostic microscopy (HP/CONS/001)</p> <p>Documented in-house procedure SOP MD/PROC/0100 in conjunction with manufacturer's instructions for Biocartis Idylla Molecular platform and test cartridges.</p>	A
<p><b>HUMAN BODY TISSUE SAMPLES &amp; cell blocks</b></p>	<p><u>Immunocytochemistry:</u></p> <p>Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis</p> <p>Germinal centre macrophages - tonsil</p> <p>ACTH secreting cells - pituitary</p> <p>Smooth muscle actin</p> <p>Epithelial cells</p> <p>Foetal liver cells</p>	<p>Documented in-house procedure SOP HP/PROC/0700 in conjunction with manufacturer's instructions for &amp; Dako Omnis immunocytochemistry stainers and using antibodies:</p> <p>A-1-AT</p> <p>ACTH</p> <p>ACTIN</p> <p>AE1/3</p> <p>AFP</p>	



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HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	<p><u>Immunocytochemistry:</u> (cont'd)</p> <p>Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)</p> <p>HGPIN, prostate adenocarcinoma</p> <p>Astrocytoma identification</p> <p>Scattered T cells in germinal centres and mantle zone B cells</p> <p>Epithelial cells of the colon</p> <p>Luminal cells of fallopian tube</p> <p>Parafollicular C cells of the thyroid</p> <p>Smooth muscle of blood vessels and of bowel wall</p> <p>Peripheral nerve ganglion</p> <p>Epithelial cells of the colon</p> <p>All germinal centre cells of tonsil</p> <p>Langerhans Cell in skin</p> <p>Germinal mantle zone B lymphocytes</p>	<p>Documented in-house procedure SOP HP/PROC/0700 in conjunction with manufacturer's instructions for &amp; Dako Omnis immunocytochemistry stainers and using antibodies:</p> <p>AMACR</p> <p>ATRX</p> <p>BCL-2</p> <p>BEP4</p> <p>CA125</p> <p>CALCITONIN</p> <p>CALDESMON</p> <p>CALRETININ</p> <p>CAM5.2</p> <p>CD10</p> <p>CD1A</p> <p>CD20</p>	A



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HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	<p><u>Immunocytochemistry:</u> (cont'd)</p> <p>Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)</p> <p>Activated lymphocytes and plasma cells. RS cells in Hodgkins lymphoma</p> <p>Endothelial cells, activated B &amp; T lymphocytes</p> <p>Endothelial cells</p> <p>T lymphocytes</p> <p>All leucocytes</p> <p>Peripheral nerves</p> <p>Macrophages</p> <p>Mantle zone B cells, germinal centre B cells, plasma cells</p> <p>T cells, cytotoxic suppressor cells</p> <p>Endothelial cells</p> <p>Normal and neoplastic plasma cells, epithelium cells</p> <p>Adenocarcinoma and carcinoid (intestinal epithelium).</p> <p>CEA glycoproteins in adenocarcinoma</p> <p>Islets of Langerhan cells of the pancreas</p>	<p>Documented in-house procedure SOP HP/PROC/0700 in conjunction with manufacturer's instructions for &amp; Dako Omnis immunocytochemistry stainers and using antibodies:</p> <p>CD30</p> <p>CD31</p> <p>CD34</p> <p>CD3</p> <p>CD45</p> <p>CD56</p> <p>CD68</p> <p>CD79</p> <p>CD8</p> <p>CD99</p> <p>CD138</p> <p>CDX-2</p> <p>CEA</p> <p>CHROMOAGRANIN</p>	A





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HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	<p><u>Immunocytochemistry:</u> (cont'd)</p> <p>Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)</p> <p>Squamous epithelium</p> <p>epithelial</p> <p>Umbrella cells of ureter</p> <p>Squamous epithelium</p> <p>Squamous epithelium</p> <p>Transitional epithelium of ureter</p> <p>Mast cells, GIST</p> <p>Epithelial cells</p> <p>Cytomegalovirus infected cells</p> <p>Smooth &amp; striated muscle cells</p> <p>Gastrointestinal stromal tumours</p> <p>Epstein Barr virus infected cells</p> <p>Epithelial cell membranes</p> <p>Epithelial cells of the kidney</p> <p>FSH secreting cells of the pituitary</p>	<p>Documented in-house procedure SOP HP/PROC/0700 in conjunction with manufacturer's instructions for &amp; Dako Omnis immunocytochemistry stainers and using antibodies:</p> <p>CK 14</p> <p>CK19</p> <p>CK20</p> <p>CK34BE12</p> <p>CK5/6</p> <p>CK7</p> <p>CKIT</p> <p>CKPAN</p> <p>CMV</p> <p>DESM</p> <p>DOG1</p> <p>EBV</p> <p>E-CAD</p> <p>EMA</p> <p>FSH</p>	A



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HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	<p><u>Immunocytochemistry:</u> (cont'd)</p> <p>Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)</p> <p>G - cells of stomach</p> <p>Bladder cancers, breast cancer</p> <p>Epithelial cells of sweat glands</p> <p>Astrocytes</p> <p>GH secreting cells of pituitary</p> <p>hepatocytes</p> <p>Trophoblasts of placenta, secreting HCG</p> <p>Melanoma cells</p> <p>H-pylori bacterium</p> <p>Oligo dentroglioma</p> <p>Leydig and Steroli cells in testis</p> <p>Insulin secreting cells in pancreas</p> <p>Proliferating cells in germinal centre B cells</p>	<p>Documented in-house procedure SOP HP/PROC/0700 in conjunction with manufacturer's instructions for Dako Omnis immunocytochemistry stainers and using antibodies:</p> <p>GASTRIN</p> <p>GATA3</p> <p>GCDF</p> <p>GFAP</p> <p>GH</p> <p>HSA</p> <p>HCG</p> <p>HMB45</p> <p>HPYL</p> <p>IDH-1</p> <p>INHIBIN</p> <p>INSULIN</p> <p>Ki67</p>	A



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HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	<p><u>Immunocytochemistry:</u> (cont'd)</p> <p>Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)</p> <p>LH secreting cells in pituitary</p> <p>Dendrites and perikarya of neurons</p> <p>Melanocytes</p> <p>Mesothelial cells, some epithelial cells of tonsil</p> <p>Mismatch repair protein MLH1</p> <p>Mismatch repair protein MSH2</p> <p>Mismatch repair protein MSH6</p> <p>Small muscle myosin</p> <p>Alveolar macrophages, pneumocytes, lung adenocarcinoma</p> <p>Neurons</p> <p>Neuroendocrine &amp; neuronal cells</p> <p>Embryonic cells and germ cell tumours</p> <p>Cervical intraepithelial neoplasia</p> <p>Squamous cell carcinoma</p>	<p>Documented in-house procedure SOP HP/PROC/0700 in conjunction with manufacturer's instructions for Dako Omnis immunocytochemistry stainers and using antibodies:</p> <p>LH</p> <p>Map-2</p> <p>MELAN A</p> <p>MESOTHELIN</p> <p>MLH1</p> <p>MSH2</p> <p>MSH6</p> <p>MYOSIN</p> <p>Napsin-A</p> <p>NFP</p> <p>NSE</p> <p>OCT3/4</p> <p>P16</p> <p>P40</p>	A



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HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	<p><u>Immunocytochemistry:</u> (cont'd)</p> <p>Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)</p> <p>Colon adenoca</p> <p>Squamous epithelium</p> <p>Tumour types including thyroid, renal cell and ovarian serous carcinomas</p> <p>PD-L1 protein expression</p> <p>Pituitary marker somatotroph cell adenoma</p> <p>Tropoblasts of placenta</p> <p>Mismatch repair protein PMS2</p> <p>Polyoma virus</p> <p>PRL secreting cells of pituitary</p> <p>Epithelial cells of proximal tubules of kidney</p> <p>Schwann cell, adipocytes, cartilage</p> <p>Pituitary marker gonadotroph cell adenoma</p> <p>Islets of Langerhans cells of pancreas</p>	<p>Documented in-house procedure SOP HP/PROC/0700 in conjunction with manufacturer's instructions for Dako Omnis immunocytochemistry stainers and using antibodies:</p> <p>P53</p> <p>P63</p> <p>PAX-8</p> <p>PDL1</p> <p>PIT-1</p> <p>PLAP</p> <p>PMS2</p> <p>POLV</p> <p>PrI</p> <p>RCC</p> <p>S100</p> <p>SF-1</p> <p>SYNAPTOPHYSIN</p>	A



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HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	<p><u>Immunocytochemistry:</u> (cont'd)</p> <p>Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)</p> <p>Follicular epithelial cells of thyroid</p> <p>TSH secreting cells of the pituitary</p> <p>Pituitary marker corticotroph cell adenoma</p> <p>Follicular epithelial cells of thyroid, Type II pneumocytes i.e.; smooth muscle, endothelium, lymphocytes</p> <p>Cells of mesenchymal origin</p> <p>Mesenchymal cells</p> <p>Prostatic epithelium used for Prostatic adenocarcinoma</p> <p>Diagnosis and classification of benign prostate lesions, prostate adenocarcinomas and high grade intraepithelial neoplasia</p> <p>Used in the diagnosis of HCC, Hepatoblastoma, melanoma, testicular germ cell tumours and Wilms' tumour</p> <p>Nuclear staining significant in fibroblasts, nuclear staining is significant in epithelial cells, used in various carcinoma</p>	<p>Documented in-house procedure SOP HP/PROC/0700 in conjunction with manufacturer's instructions for Dako Omnis immunocytochemistry stainers and using antibodies:</p> <p>TYHROGLOBULIN</p> <p>TSH</p> <p>T-PIT</p> <p>TTF1</p> <p>Vimentin</p> <p>WT1</p> <p>NKX3.1</p> <p>Dual Staining (AMACR/P63)</p> <p>Glypican-3</p> <p>Bata Catenin</p>	A



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HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	<p>Immunocytochemistry: (cont'd)</p> <p>Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)</p> <p>Melanoma marker including spindle cell and desmoplastic subtypes</p> <p>Present in Lymphatic endothelium and other cells used to aid the identification of lymphovascular space invasion</p> <p>Breast carcinoma</p> <p>Breast cancer and normal gland</p> <p>Breast cancer</p> <p>ALK positive non-small cell lung carcinomas</p>	<p>Documented in-house procedure SOP HP/PROC/0700 in conjunction with manufacturer's instructions for Dako Omnis immunocytochemistry stainers and using antibodies:</p> <p>SOX-10</p> <p>D240</p> <p>Documented in-house procedure SOP HP/PROC/0700 in conjunction with manufacturer's instructions for Ventana Ultra immunocytochemistry stainers and using antibodies:</p> <p>HER 2</p> <p>OEST</p> <p>PROG</p> <p>ALK</p>	A



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HUMAN BODY TISSUE SAMPLES, fine needle aspirates & brushings Including Urine, nipple discharge, cyst fluid, skin scrapings, synovial fluid, CSF, sputum, bronchial washings / brushings, pleural fluid, peritoneal ascites, pericardial fluid, FNA solid organ, Endoscopic USScan guided FNA and USScan guided transbronchial FNA	<u>Non-gynaecological cytology examination activities:</u>  Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis  Basic cellular components on fixed preparations and air-dried preparations (HG)	<u>Sample preparation, processing &amp; routine staining</u>  Documented in-house procedure SOP CY-PROC/100 in conjunction with manufacturer's instructions for Shandon Varistain 24-4 and Hologic T2000 using:  Papanicolaou stain CY/PROC/111  Hema- Gurr (HG) rapid stain CY/PROC/111  Dako Coverstainer - automated H&E (HP/PROC/0500)  <u>Interpretive Microscopy</u>  <u>Leica Microscope</u> <u>Nikon Microscope</u> <u>Olympus Microscope</u>  SOP HP/PROC/0102 and as appropriate to specimen type	A



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HUMAN BODY FLUIDS	<u>Immunological examinations for the purpose of clinical diagnosis</u>		A
	<u>Autoimmune Disease Testing</u>		
Serum	Liver, kidney, stomach & nuclear/cytoplasmic specific antibodies (IgG). Anti-Neutrophil cytoplasmic antibodies (IgG) Endomysial antibodies (IgA & IgG) Skin (IgG) Antibodies	Manual slide preparation or Automated slide preparation in conjunction with manufacturer's instructions using: Indirect immunofluorescence microscopy using the following SOP's: IM/A/034	
Serum	Crithidia (IgG) Antibodies	Manual slide preparation followed by indirect immunofluorescence microscopy using the following SOP: IM/A/009	
Serum	Cyclic Citrullinated Peptide antibodies CCP (IgG)	Werfen Bioflash using a chemiluminescent immunoassay SOP IM/A/037	
Serum	Coeliac Screen: Tissue transglutaminase Ab tTG (IgA) IgG Tissue transglutaminase tTG (IgG) Deamidated gliadin peptide Ab DGP (IgA) Deamidated gliadin peptide Ab DGP (IgG)	Werfen Aptiva using particle-based multi-analyte technology (PMAT) SOP IM/A/036	





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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis (cont'd)</u>		A
	<u>Autoimmune Disease Testing (cont'd)</u>		
Serum	Vasculitis Screen (IgG): Glomerular basement protein Ab (GBM) Proteinase 3 Ab (PR3) Myeloperoxidase Ab (MPO)	Werfen Bioflash using a chemiluminescent immunoassay SOP IM/A/037	
Serum	Antiphospholipid screen (IgG): Cardiolipin Ab Beta-2-glycoprotein I Ab (B2GP)	Werfen Bioflash using a chemiluminescent immunoassay SOP IM/A/037	
Serum	Antinuclear antibodies (IgG): Double stranded DNA Ro52 Ro60 La SmRNP Sm RNP-68 RNP-A Chromatin Ribosomal P Scl-70 Centromere B Jo-1	Werfen Aptiva using particle-based multi-analyte technology (PMAT) SOP IM/A/036	
Serum	Intrinsic factor antibodies	Competitive inhibition immunoenzymatic assay in conjunction with manufacturer's instructions using Beckman DXi and using in-house procedures: BI/S/7001 BI/S/700	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum	<u>Autoimmune Disease Testing</u> (cont'd)  Thyroid peroxidase antibodies	Immunoenzymatic sandwich assay BI/S/700 in conjunction with manufacturer's instruction using DXi and in-house procedures	
Serum	Extractable Nuclear Antigens (IgG): Ro La Sm SmRNP Jo-1 Scl-70	EuroImmune EuroblotOne Immunoblot SOP- IM/A/032	
Serum	Liver antibodies (IgG): Anti-M2 M2-3E LKM 1 SLA/LP LC-1	EuroImmune EuroblotOne Immunoblot SOP- IM/A/032	
Serum	Myositis associated antibodies (IgG): Mi-2 α Mi-2 β TIF1γ MDA5 NXP2 SAE1 Ku PM-Scl100 PM-Scl75 Jo-1 SRP PL-7 PL-12 EJ OJ Ro-52	EuroImmune EuroblotOne Immunoblot SOP- IM/A/032	



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2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK  
**York and Scarborough Teaching Hospitals NHS Foundation Trust**

**Issue No: 025 Issue date: 19 June 2025**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
	<u>Autoimmune Disease Testing</u> (cont'd)		
Serum	Specific Mitochondrial Antibodies (IgG/IgM): Anti-M2/M4/M9	Manual line blots in conjunction with manufacturer's instructions and in-house procedures: IA/A/030	
Serum	Specific vaccine related antibodies: Pneumococcal Haemophilus influenzae B Tetanus toxoid	ELISA using Triturus automated processor in conjunction with manufacturer's instructions and in house procedures: IM/A/022	
	<u>Immunochemistry</u>		
Serum	Detection and immunotyping of monoclonal paraproteins	Sebia Capillarys Octa 3 using capillary zonal electrophoresis and immunosubtraction SOP IM/M/042	
Serum/Urine	Detection and immunotyping of monoclonal paraproteins	Sebia Hydrasys using gel electrophoresis and immunofixation SOP IM/M/043	
Serum	Cryoglobulins	Visual inspection, Sebia Capillarys Octa 3 using capillary zonal electrophoresis and Sebia Hydrasys gel immunofixation SOP IM/M/009	
Serum	Specific proteins: Immunoglobulin G Immunoglobulin M Immunoglobulin A Complement C3 Complement C4 Rheumatoid factor Beta-2-Microglobulin Haptoglobin	Turbidimetry using in-house procedures BI/AU/001 and in conjunction with manufacturer's instructions using: AU 5800	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis (cont'd)</u>		A
	<u>Immunochemistry (cont'd)</u>		
Serum	Serum free light chains: Free lambda Free kappa  C1 Inhibitor antigenic assay Sensitive IgA Caeruloplasmin	Turbidimetry using in-house procedures IM/M/031, IM/M/037 and in conjunction with manufacturer's instructions using: Optilite SOP IM/M/040	
EDTA Plasma	C1 inhibitor functional assay	ELISA using Quidel Functional C1e Inhibitor assay kit and in-house procedure IM/M/033 in conjunction with manufacturer's instructions using Triturus plate reader	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis (cont'd)</u>		A
Whole blood EDTA	<u>Immunodeficiency</u>  Lymphocyte subsets: <ul style="list-style-type: none"> <li>• CD45/CD3</li> <li>• CD45/CD3/CD4</li> <li>• CD45/CD3/CD8</li> <li>• CD45/CD19</li> <li>• CD45/CD56/16</li> <li>• CD45/CD3/CD56/16</li> <li>• CD45/CD3/TCRalpha-beta</li> <li>• CD45/CD3/TCRgamma-delta</li> <li>• CD45/CD3/HLA-DR</li> <li>• T cell subsets for HIV monitoring</li> <li>• CD45/CD3</li> <li>• CD45/CD3/CD4</li> <li>• CD45/CD3/CD8</li> <li>• B Cell subsets</li> <li>• CD45/CD19/CD27-/IgD+</li> <li>• CD45/CD19/CD27+/IgD+</li> <li>• CD45/CD19/CD27+/IgD-</li> <li>• CD21<sub>lo</sub> B-cells</li> <li>• HLA B27</li> <li>• CD34</li> </ul>	Flow cytometry using in-house procedures IM/C/004, IM/C/006, IM/C/007 in conjunction with manufacturer's instructions using: FC500 flow cytometer	
Heparinised whole blood	T-SPOT for TB	Flow cytometry and ELISPOT count using in-house procedures IM/C/031 in conjunction with manufacturer's instructions using: Beckman Coulter FC500 flow cytometer, Microgalaxy CO <sub>2</sub> Incubator and Zoom XTL-101 stereo microscope.	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
	<u>Immunodeficiency</u> (cont'd)		
Heparinised whole blood	Neutrophil function tests: Neutrophil burst test Neutrophil MPO test Reporting proportion of neutrophils positive for DHR activity and MPO staining	Flow cytometry using in-house procedures IM/C/016, IM/C/017 in conjunction with manufacturer's instructions: measured on Beckman Coulter FC500 flow cytometer	
Serum	Total ImmunoglobulinE (IgE): Sp. IgE Tryptase PR3/MPO/GBM antibodies (IgG)	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	
Serum	Detection and quantification of specific IgE to the following allergens:  Timothy grass Bermuda grass Ragweed Mugwort Wall pellitory Plantain Saltwort Birch Cypress Olive Saltwort Birch <i>Alternaria alternata</i> <i>Aspergillus fumigatus</i> <i>Aspergillus oryzae</i> Dog Cow Cat Horse House dust mite Honeybee venom Common wasp venom Paper wasp venom		



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	<p>Detection and quantification of specific IgE to the following allergens: (cont'd)</p> <p>Latex Pineapple Papaya Egg Maxatase Savinase Pig pepsin Kiwi Cashew nut Celery Peanut Brazil nut Milk Hazel nut Carp Cod Soy Glycinin Walnut Apple Shrimp Peach Wheat Bovin thyroglobulin Bahia grass Barley Brome grass Canary grass Cocksfoot Common reed Cultivated oat Cultivated rye Cultivated wheat False oat grass Johnson grass Maize corn Meadow fescue</p>	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	<p>Detection and quantification of specific IgE to the following allergens: (cont'd)</p> <p>Meadow grass Rye grass Salt grass Velvet grass Sweet vernal grass Wild rye grass Alfafa Camomile Careless weed Cocklebur Common ragweed Dandelion Dog fennel False ragweed Firebush Giant ragweed Goldenrod Goosefoot Japanese hop Lupin Marguerite Mugwort Nettle Plantain Rape Rough marshelder Saltwort Scale Sheep sorrel Sugar beet Sunflower wall pellitory Western ragweed Wormwood Yellow dock Acacia American beech</p>	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	<p>Detection and quantification of specific IgE to the following allergens: (cont'd)</p> <p>Austaralin pine Blad cypress Bayberry Box elder Cedar Cedar elm Chestnut Common silver birch Cotton wood Cypress Date Douglas fir Elder Elm Eucalyptus European ash Grey alder Hackberry Hazel Horn beam Horse chestnut Italian/Mediterranean/Funeral cypress Japanese cedar Linden Maple leaf sycamore, Melaleuca Mesquite Mountain juniper Mulberry Oak Oil Palm Paloverde Pecan, Peppertree Pine Privet</p>	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	<p>Detection and quantification of specific IgE to the following allergens: (cont'd)</p> <p>Queen palm Red cedar Red mulberry Russian olive Scotch broom Spruce Sweet gum Walnut White ash White hickory White pine Willow Virginia live oak Acremonium kiliense Alternaria alternata Aspergillus flavus Aspergillus fumigatus Aspergillus niger Aspergillus terreus Aureobasidium pullulans Botrytis cinerea Candida albicans Chaetomium globosum Cladosporium herbarum Curvularia lunata Epicoccum purpurascens Fusarium proliferatum Setomelanomma rostrata Malassezia spp. Mucor racemosus Penicillium chrysogenum Penicillium glabrum Phoma betae Pityrosporum orbiculare Rhizopus nigricans Staphylococcal enterotoxin A Staphylococcal enterotoxin B</p>	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	Detection and quantification of specific IgE to the following allergens: (cont'd)  Staphylococcal enterotoxin C Staphylococcal enterotoxin TSST Stemphylium herbarum Tilletia tritici Trichoderma viride Trichophyton mentagrophytes var. goetzii Trichophyton mentagrophytes var. interdigitale Trichophyton rubrum Trichosporon pullulans Ulocladium chartarum Budgerigar droppings Budgerigar feathers Canary bird droppings Canary bird feathers Cat dander Chicken droppings Chicken feathers Chicken, serum proteins Chinchilla epithelium Cow dander Deer epithelium Dog dander Duck feathers Ferret epithelium Ferret epithelium Finch feathers Fox epithelium Gerbil epithelium Goat epithelium Goose feathers Guinea pig epithelium Hamster epithelium Horse dander Horse, serum proteins	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	Detection and quantification of specific IgE to the following allergens: (cont'd)  Mink epithelium Mouse epithelium Mouse epithelium, serum proteins and urine proteins Mouse serum proteins Mouse urine proteins Parakeet droppings Parakeet feathers Parakeet serum Parrot feathers Pigeon droppings Pigeon feathers Rabbit epithelium Rabbit, serum proteins Rabbit, urine proteins Rat epithelium Rat epithelium, serum proteins and urine proteins Rat serum proteins Rat urine proteins Reindeer epithelium Rat epithelium, serum proteins and urine proteins Rat serum proteins Sheep epithelium Swine epithelium Turkey feathers Storage mite House dust mite Berlin beetle Blood worm Cockroach Fire ant Grain weevil Green nimitti Horse fly Mediterranean flour moth	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	<p>Detection and quantification of specific IgE to the following allergens: (cont'd)</p> <p>Moth Bumble bee venom European paper wasp White faced hornet Amoxicilloyl Ampicilloyl Cefaclor Chlorhexidine Chymopapain Gelatin bovine Insulin bovine Insulin human Insulin porcine Penicilloyl G Penicilloyl V Pholcodine Morphine Suxamethonium (succinylcholine) Abachi wood dust Bougainvillea Castor bean Chloramin T Cotton seed Ethylene oxide Ficus Formaldehyde/Formalin Green coffee bean Hexahydrophthalic anhydrid Isocyanate HDI Isocyanate MDI Isocyanate TDI Ispaghula Methyltetrahydrophthalic anhydrid Phthalic anhydride Silk</p>	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	
Serum (cont'd)	Silk waste Sunflower seed Trimellitic anhydride fish feed Cotton Daphni Seminal fluid Streptavidin Tobacco leaf Anisakis Ascaris Apple Apricot Asparagus Aubergine Avocado Persea americana Bamboo shoot Banana Beetroot Blackberry Blueberry Broccoli Brussel sprouts Cabbage Carambola Carrott Cauliflower Cherry Cucumber Fennel Fig Garlic Grape Grapefruit Guava Jack fruit Jujube		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	<p>Detection and quantification of specific IgE to the following allergens: (cont'd)</p> <p>Kiwi Lemon Lettuce Lime Litchi Mandarin (tangerine, clementine, satsumas) Mango Melon Olive (black, fresh) Onion Orange Papaya Passion fruit Pear Persimon Pineapple Plum Potato Pumpkin Raspberry Red currant Rose hip Spinach Strawberry Sweet potato Tomato Watermelon Almond Barley Blue vetch Cashew nut Chickpea Coconut Common millet Fenugreek Foxtail millet</p>	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	<p>Detection and quantification of specific IgE to the following allergens: (cont'd)</p> <p>Gluten Green bean Japanese millet Lentil Lima bean Linseed Lupin seed Macadamia Pea Peanut Pecan nut Pine nut Pistachio Poppy seed Pumpkin seed Quinoa Rape seed Red kidney bean Rice Rye Sesame seed Soybean Spelt wheat Sugar-beet seed Sweet chestnut White bean Allspice Anise Basil Bay leaf Black pepper Caraway Cardamon Chilipepper Clove Coriander Curry</p>	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	





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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	<p>Detection and quantification of specific IgE to the following allergens: (cont'd)</p> <p>Dill Fennel seed Ginger Green pepper Lovage Mace Marjoram Mint Mustard Oregano Paprika Parsley Saffron Sage Tarragon Thyme Vanilla Abalone Anchovy Blue mussel Catfish Chub mackerel Clam Crab Crayfish Eel Grouper Gulf flounder Haddock Hake Halibut Herring Jack mackerel Langust Lobster Mackerel Megrim</p>	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	
Serum (cont'd)	Octopus Orange roughy Oyster Pacific squid Plaice Pollock Red snapper Salmon Sardine Japanese Pilchard Sardinops melanosticta Scallop Shrimp Snail Sole Squid Swordfish Tilapia Trout Tuna Walleye pike Whitefish Chicken Gallus spp. Egg white Egg yolk Turkey meat Chicken Cheese, cheddar type Cheese, mold type Cow's whey Goat milk Mare's milk Milk Milk, boiled Sheep milk Sheep whey Carob (E410)		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	<p>Detection and quantification of specific IgE to the following allergens: (cont'd)</p> <p>Guar, guar gum (E412) Gum arabic (E414) Tragacanth (E413) Cochineal extract (Carmine red) (E120) Cacao Coffee Honey Hop Malt Mushroom Tea Yeast</p> <p><u>Food mixes of:</u></p> <p>Peanut, Hazel nut, Brazil nut, Almond, Coconut</p> <p>Fish, Shrimp, Blue mussel, Tuna, Salmon</p> <p>Wheat, Oat, Maize, Sesame seed, Buckwheat</p> <p>Egg white, Milk, Fish, Wheat, Peanut, Soybean</p> <p>Tomato, Yeast, Garlic, Onion, Celery</p> <p>Hazel nut, Brazil nut, Orange, Apple, Cacao</p> <p>Almond, Kiwi, Melon, Banana, Grape</p>	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	<p>Detection and quantification of specific IgE to the following allergens: (cont'd)</p> <p><u>Food mixes of:</u> (cont'd)</p> <p>Pork, Beef, Egg yolk, Chicken, Turkey</p> <p>Maize, Pea, White bean, Carrot, Broccoli</p> <p>Rye, Rice, Potato, Mushroom, Pumpkin</p> <p>Pea, White bean, Carrot, Potato</p> <p>Tomato, Spinach, Cabbage, Paprika</p> <p>Orange, Apple, Banana, Peach</p> <p>Strawberry, Pear, Lemon, Pineapple</p> <p>Apple, Banana, Pear, Peach</p> <p>Pea, Peanut, Soybean</p> <p>Carrot, Potato, Spinach, Cucumber</p> <p>Wheat, Rye, Barley, Rice</p> <p>Kiwi, Melon, Banana, Peach, Pineapple</p> <p>Pecan nut, Cashew nut, Pistachio, Walnut</p>	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
Serum (cont'd)	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures BI/S/508.BI/S/509, BI/S/611 in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250	
	<u>Food mixes of:</u> (cont'd)		
	Pork, Beef, Chicken meat, Turkey meat		
	Hazel nut, Shrimp, Kiwi, Banana		
	Sesame seed, Yeast, Garlic, Celery		
HUMAN BODY FLUIDS AND TISSUES	<u>Microbiology examination for the purposes of clinical diagnosis</u>	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Aspirates	General isolation of microorganisms of clinical significance.	Manual inoculation followed by culture using:	
Cellular and fluid material contained on swabs and cannulae		Ears examination MI/655 Eye examination MI/368 General bench SOP MI/012	
Faeces		Enteric processing MI/380 Campylobacter MI/382 E.coli O157 MI/654 Yersinia MI/657 Vibrio/Pleisiomonas/Aeromonas MI/659 Salmonella MI/660 Shigella MI/665	
Fluids (incl. contact lenses fluid)		MI/039 CAPD MI/010 CSF MI/012 ascitic fluids	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination for the purposes of clinical diagnosis</u> (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Genital samples		Genital bench specimen processing MI/662	
Samples from sterile sites		Prosthetic joint associated tissue samples MI/363	
Tissues		Clinical and hot bench specimen processing MI/662	
Urine		General urine methods MI/008 Urine sample processing MI /378	
	Detection, identification and quantification of:	Staining (inc Gram) and microscopic examination using: MI/02	
Aspirates Cellular and fluid material contained on swabs and cannulae Fluids Tissues Cultures isolated in house from the above	White blood cells Red blood cells Bacterial cells Yeast cell and fungal hyphae		
Whole blood	General isolation of microorganisms of clinical significance.	Automated culture using BD BACTEC FX continuous monitoring system MI/009	
Urine	Quantification of white and red blood cells, bacteria and epithelial cells	Automated urine analysis using Sedimax image urine analyser.  Sedimax automated image urine analyser MI/1030	
Urine	Quantification of white and red blood cells, bacteria and epithelial cells	Manual Inverted Microscopy/enumeration and manual inoculation using MI/008 general urine methods MI/378 urine sample processing	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination for the purposes of clinical diagnosis</u> (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Cerebral fluid samples	Quantification of white and red blood cells and bacteria	Microscopy (inc. Gram Stain) using MI/010 CSF MI/012 Gram stain	
Female genital tract swabs	Microscopic diagnosis of bacterial vaginosis	Microscopy examination (Hay's criteria) using: MI/011 MI/662 Genital bench specimen processing	
Swabs	Screening for Methicillin resistant <i>Staphylococcus aureus</i> (MRSA)	Manual inoculation and culture using MI/014 Resistance screening MI/667 MRSA/MSSA screening	
Sputum	General isolation of microorganisms of clinical significance	Manual inoculation and culture using:  Culture media, growth SOP MI/1025	
Bronchial lavage		Respiratory investigations MI/1026  Manual inoculation and culture using MI/661 resistance screening and:	
Rectal swabs	Screening for Vancomycin resistant enterococci (VRE)	MI/672	
Faeces	Screening for Extended spectrum betalactamases (ESBL)	MI/706	
Rectal swabs	Screening for Extended spectrum betalactamases (ESBL)	MI/014	
Faeces and rectal swabs	Screening for Carbapenamase producing Enterobacteriaceae (CPE)	MI/705	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination for the purposes of clinical diagnosis</u> (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Faeces and rectal swabs	Trans-rectal screening for Carbapenamase producing Enterobacteriaceae (CPE) and Ciprofloxacin and Gentamicin resistance	MI/705	
Respiratory samples Urine Tissue Swabs (including endoscopy) Body fluids	Presumptive identification of Acid-alcohol fast bacilli (inc. <i>Mycobacterium spp</i> )	Fluorescent microscopy using Auramine stain. Mycobacterial investigations MI/016	
Respiratory samples Urine Tissue Swabs (including endoscopy) Body fluids	Isolation and presumptive identification of Acid-alcohol fast bacilli (inc <i>Mycobacterium spp</i> )	Automated culture using BD MGIT continuous monitoring system. MI/009 Fluorescent microscopy as above.	
Whole Blood	Isolation and presumptive identification of Acid-alcohol fast bacilli (inc <i>Mycobacterium spp</i> )	Automated culture using BD BacTec 40 continuous monitoring system. MI/009 Fluorescent microscopy as above.	
Hair, skin, nail	General isolation and characterisation of clinically significant fungi.	Manual culture and Calcofluor white fluorescent microscopy using MI/013	
Cultures isolated in house from the above	Identification of clinically significant bacteria.	Biochemical profile determination using automated Matrix-assisted laser desorption/ionisation (MALDITOF) MI/674 Maldi Biotyper MI/095 VITEK MI/1011 API	
Whole blood – positive blood culture specimens	Direct identification of clinically significant bacteria.	Matrix-assisted laser desorption/ionisation (MALDITOF) MI/674 MaldiBiotyper	





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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination for the purposes of clinical diagnosis</u> (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Cultures isolated in house from the above	Antimicrobial susceptibility testing of clinically significant bacteria.	Manual disc diffusion and/or automated methods using EUCAST methodology using MI/670 EUCAST method of disc diffusion  Gradient MIC determination by E-test using MI/1010 Minimum inhibitory concentration (MIC) method	
Fungal cultures isolated in house from the above	Antifungal Susceptibility Testing of Yeasts of clinical significance.	Sensititre YeastOne (Trek Diagnostic Systems) by colourimetric microdilution MIM068	
Culture isolated in house from the above	Identification of Staphylococcal isolates	Prolab Staphylococcal Latex Agglutination kit MI/003	
Culture isolated in house from the above	Serological identification of groups A, B,C,D,F and G of the Lancefield groups of Streptococci grown in agar plates.	Prolex Streptococcal Grouping latex Kit MI/696	
Urine	Detection of Legionella antigen	Binax NOW Legionella Urinary Antigen Test kit by Alere MI/677	
Culture isolated in house from the above	Detection of <i>Salmonella</i> polyvalent 'O' (PSO) and 'H' (PSH); <i>Shigella spp.</i> <i>Vibrio spp</i>	Salmonella MI/660, Shigella MI/665- Vibrio/Pleisiomonas/Aeromonas MI/659	
Female genital swabs	Detection of <i>Trichomonas vaginalis</i>	Broth culture and light microscopy MI/662	
Faeces	Detection of <i>Helicobacter pylori</i> antigen  Identification of <i>E.coli</i> O157	Pro-flow Lateral flow kit MI/066  Prolex latex kit using E coli O157 MI/654	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination for the purposes of clinical diagnosis</u> (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Faeces	Detection of ova, cysts and parasites (OCP)	Concentration and light microscopic examination using MI/017	
Faeces	Detection of <i>Cryptosporidium</i> oocysts	Fluorescent microscopy (Auramine stain) using MI/679	
Faeces	Identification of Cyclospora by microscopy		
Faeces	Detection of <i>C.difficile</i> GDH antigen	DS2 automated EIA platform using MI/1016 Techlab Cdiff Check and manual lateral flow Techlab Cdiff chek complete MI/1023	
Faeces	Detection of <i>C.difficile</i> toxin A & B	Lateral flow Techlab Cdiff Chek complete using MI/062	
Faeces	Detection of Rotavirus antigen	DS2 automated EIA platform, EIA Rota Premier meridian, antigen kit using MI/063 and MI/062	
Blood	Detection of Gamma interferon antigen	DS2 automated EIA MI/064 and MI/062 4	
	<u>Molecular examination activities for the purpose of clinical diagnosis</u>	Documented in house methods incorporating manufacturer's' instructions where relevant using Cepheid GeneXpert real time PCR SOP MVI/226	A
Cultures isolated in house from the above	Detection of MRSA	MVI/230	
Faeces	Detection of Norovirus	MVI/376	
Faeces	Detection of <i>C.difficile</i> toxin	MVI/226	
Nasopharyngeal swabs, nose and throat swabs	Quad test - detection of RSV and Influenza A & B, RSV and SARS-CoV-2	MVI/226	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Molecular examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturer's' instructions where relevant using Cepheid GeneXpert real time PCR SOP MVI/226	A
EDTA Plasma	HIV virus RNA	VI/027, VI061	
EDTA Plasma	Hepatitis C virus RNA	VI/027, VI061	
EDTA Plasma	Hepatitis B virus DNA	VI/044, VI/061	
Sputum, bronchial lavage	Detection of <i>Mycobacterium tuberculosis</i> nucleic acid and rifampicin resistance.	Cepheid GeneXpert real time PCR using SOP MI/375, MVI.226  Cepheid GeneXpert real time PCR using SOP MVI/226	
Pernasal aspirate/swab	RSV RNA	MVI/227	
	Influenza RNA	MVI/227	
Nasal swab	MRSA DNA	MVI/230  Elitech InGenius nucleic acid extraction and PCR system VI/158 and VI/128	
CSF, skin, eye, throat, vesicle & genital swabs	HSV I & II	VI/159	
CSF	Adenovirus Varicella Zoster virus Enterovirus Parechovirus virus	VI/159	
Urine	CMV (qualitative)		
	Quantification of:		
EDTA/plasma	EBV viral load CMV viral load BKV viral load	VI/160	
Urine	<i>Mycoplasma genitalium</i> and associated macrolide resistance genes	VI/168	
	<i>Mycoplasma genitalium</i> DNA		



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Molecular examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant using:  Elitech InGenius nucleic acid extraction and PCR system VI/158 and VI/128	A
Genital swabs, urine	<i>C. trachomatis</i> DNA	VI/007 VI/068	
Genital swabs, urine	<i>N. gonorrhoeae</i> DNA	VI/007 VI/068	
Genital swabs, urine	<i>T. vaginalis</i> DNA	VI/007	
Nasopharyngeal secretion	<u>Respiratory Pathogens (RP2) plus Panel:</u>  Adenovirus Coronavirus 229E, Coronavirus HKU1 Coronavirus NL63 Coronavirus OC43 Human Rhinovirus/Enterovirus Human metapneumovirus Influenza B Influenza A including subtypes H1, H1-2009 and H3 Parainfluenza virus 1 Parainfluenza virus 2 SARS-CoV-2	BioFire FilmArray Torch multiplex PCR technology  MI/1042	





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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Bronchoalveolar lavage, Sputum</p>	<p><u>Molecular examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p><u>Pneumonia panel plus (cont'd)</u></p> <p>Acinetobacter calcoaceticus-baumannii complex Klebsiella oxytoca Serratia marcescens Enterobacter cloacae complex Klebsiella pneumoniae group Staphylococcus aureus Escherichia coli Moraxella catarrhalis Streptococcus agalactiae Haemophilus influenzae Proteus spp. Streptococcus pneumoniae Klebsiella aerogenes Pseudomonas aeruginosa Streptococcus pyogenes Chlamydia pneumoniae Legionella pneumophila Mycoplasma pneumoniae Chlamydia pneumoniae Legionella pneumophila Mycoplasma pneumoniae Adenovirus Human Rhinovirus/Enterovirus Middle East Respiratory Syndrome (MERS-CoV) Coronavirus Influenza A Parainfluenza Virus Human Metapneumovirus Influenza B Respiratory Syncytial Virus CTX-M NDM mecA/C and MREJ IMP OXA-48-like VIM KPC</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant using:</p> <p>BioFire FilmArray Torch multiplex PCR technology using MI/1042</p>	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Molecular examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant using:	A
CSF	<u>Meningitis/Encephalitis Panel</u>  Escherichia coli K1, Haemophilus influenzae, Listeria monocytogenes, Neisseria meningitidis, Streptococcus agalactiae, Streptococcus pneumoniae, Cryptococcus gattii/neoformans, Cytomegalovirus, Herpes simplex virus 1, Herpes simplex virus 2, Human herpesvirus 6, Enterovirus, Human parechovirus, Varicella zoster virus.	MI/1050	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Serological activities for the purpose of clinical diagnosis</u>	Documented in house methods incorporating manufacturers' instructions where relevant using:  Documented in-house methods to meet the requirements of the Infectious Diseases in Pregnancy screening programme (relevant tests marked with *) as defined in the Quality Assurance evidence requirements:	A
Serum	Microbial serology for:  Hepatitis A Total Ab Hepatitis A IgM Hepatitis B surface antibody Hepatitis B core total Ab Hepatitis C antibody CMV IgG Rubella IgM Rubella IgG HIV antigen/antibody* Hepatitis B Sag*	Beckman Coulter -UniCel DxI 800 Procedures:VI/049 Hepatitis results protocol: VI/015 HIV results protocol: VI/014	
Serum	HIV antigen/antibody* Hepatitis A IgM Hepatitis C Ab Hepatitis B eAg/Ab Hepatitis B core IgM Hepatitis B surface antigen* Toxoplasma Ab Hepatitis E IgM Hepatitis E IgG Hepatitis B core Ab* Mumps IgG	VIDAS 30 Enzyme Immunoassay with fluorescence (ELFA), VI/008	





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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Serological activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant using:	A
Serum	Microbial Serology for:  CMV IgG/IgM CMV IgG avidity Parvovirus IgG/M HTLV Ab Syphilis Ab* EBV VCA IgG/M EBV EBNA IgG VZ IgG Measles IgG/M Mumps IgM	Documented in-house methods to meet the requirements of the Infectious Diseases in Pregnancy screening programme (relevant tests marked with *) as defined in the Quality Assurance evidence requirements:  DiaSorin Liaison XL VI/048 (chemiluminescence)	
Nasopharyngeal swabs, nose and throat swabs	SARS-CoV-2	Perkin Elmer Chemagenic 360 extraction platform	
Nasopharyngeal swabs, nose and throat swabs	SARS-CoV-2	Samba II	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Serological activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant using:	A
Nose & Throat) Swabs in VTM	Nucleic acid extraction as below	Euroclone DuplicaPrep/Prepito D extraction platform and Euroclone Duplica NA body fluid kit and the below platforms	
	Detection of SARS-CoV-2 virus RNA (COVID-19) specifically RdRp, N and E gene	ABI 7500 TR PCR using the Gene finder COVID 19 plus Real AMP kit or	
	Detection of SARS-CoV-2 virus RNA (COVID-19) specifically Orf1ab/RdRp and E gene	the Anatolia Bosphore COVID-19 kit	
	Detection of SARS-CoV-2 virus RNA (COVID-19) specifically RdRp, N and E gene	ABI 7500 TR PCR using the Gene finder COVID 19 plus Real AMP kit	
END			



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### Appendix 1

<b>C Hull Royal Infirmary - Wards</b>	<b>Glucose</b>	<b>C Hull Royal Infirmary - Clinics/outpatient</b>	<b>Glucose</b>
HRI Gastro	x	HRI Acute care, ambulatory	x
HRI Diabetes	x	HRI Respiratory	x
HRI Neurology	x	HRI General surgery	x
HRI Stroke	x	HRI Diabetes	x
HRI Orthopaedic	x	HRI Renal	x
HRI Medical	x	HRI Medical day unit	x
HRI General medicine (COVID-19)	x	HRI Medical OPD	x
HRI Ophthalmology	x	HRI Orthopaedic OPD	x
HRI Respiratory (COVID-19)	x	HRI Xray	x
HRI General medicine (COVID-19)	x	HRI Surgical	x
HRI Neurology	x	HRI Acute care - ED	x
HRI Respiratory	x	HRI Endoscopy	x
HRI Winter ward	x	HRI Ophthalmology OP	x
HRI General surgery	x	HRI Ophthalmology Clinic	x
HRI Rheumatology	x	HRI Fracture Clinic	x
HRI Vascular	x	HRI discharge lounge	x
HRI Medical Elderly	x	HRI Antenatal clinic	x
HRI Acute Medical Unit	x	HRI occupational therapy	x
HRI Frailty Assessment Beds	x	HRI Surgical OPD	
HRI Surgery	x		
HRI Gynae	x		
HRI Gynae surgery	x		
HRI Labour ward (antenatal)	x		
HRI Labour ward (neonatal)	x		
HRI Antenatal	x		
HRI Postnatal	x		
HRI Surgery - theatre	x		
HRI ICU - theatre	x		
HRI Acute care	x		
HRI Surgical	x		
HRI Medical	x		
HRI NICU	x		
HRI OPD	x		
HRI SCBU	x		
HRI Paed assessment unit	x		



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<b>D Castle Hill Hospital- Wards</b>	<b>Glucose</b>	<b>D Castle Hill Hospital - Clinics/outpatient</b>	<b>Glucose</b>
CHH Complex rehab	x	CHH Oncology	x
CHH Colorectal	x	CHH Cardiology	x
CHH Colorectal and gynae	x	CHH Dermatology	x
CHH Upper GI	x	CHH Endoscopy	x
CHH Urology	x	CHH Immunomodulatory Infusion Centre	x
CHH Breast / ENT	x	CHH Immunology	x
CHH Cardiac	x	CHH Oncology	x
CHH Oncology	x	CHH Urology Ambulatory Bay	x
CHH Surgical	x	CHH Day Surgery -recovery area post op	x
CHH Infectious diseases	x	CHH Breast / ENT-recovery area post op	x
CHH Medical Elderly	x	CHH Cardiac -recovery area post op	x
CHH intensive Care unit	x	CHH Plastics	x
CHH Max Fax theatre	x	CHH Preassessment	x
CHH Surgery theatre	x	CHH Xray	x
CHH Cardiology Catheter Lab theatre	x	CHH Surgical assessment	x
CHH Plastics theatre	x	CHH Breast care	x
CHH General medicine theatre	x	CHH ENT	x
CHH Gynae theatre	x		
<b>E East Riding Hospital</b>			
Adult Outpatients Clinic	x		