


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS MEDICAL 8992 Accredited to ISO 15189:2022	Calderdale and Huddersfield NHS Foundation Trust	
	Issue No: 018 Issue date: 01 October 2025	
	Pathology Huddersfield Royal Infirmary Acre Street Lindley HD3 3EA United Kingdom	Contact: Alison Milner Tel: +44 (0) 1484 355365 E-Mail: Alison.Milner@cht.nhs.uk Website: www.cht.nhs.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Huddersfield Royal Infirmary Acre Street Lindley HD3 3EA United Kingdom	Chemistry, Haematology, Blood Transfusion testing	HRI
Address Calderdale Royal Hospital Salterhebble Halifax HX3 0PW United Kingdom	Chemistry, Haematology, Blood Transfusion, Microbiology/serology, Histopathology, non-gynae Cytopathology testing	CRH



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Site activities performed away from the laboratories:

Location details	Activity
Huddersfield Royal Infirmary	Phlebotomy (Outpatients) P20-001 Blood issue fridge (designated secure room off the main corridor outside pathology) Body Store: Storage of bodies Record keeping (body identification and audit trail) Block, slide and record storage
Calderdale Royal Hospital	Phlebotomy (Outpatients) P20.001 Blood issue fridge (sample reception waiting area and Labour ward) Body Store: Storage of bodies Record keeping (body identification and audit trail)



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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>Clinical Biochemistry examination activities for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturers' instructions where relevant	
Serum, plasma (Li Hep)	Albumin	Siemens Advia 1800 (CRH) Using suppliers methods unless otherwise stated and SOPs: Bromocresol green LI 820-260	CRH
Serum, plasma (Li Hep)	Alkaline Phosphatase	IFCC Standardised Method LI 820-260	CRH
Serum, plasma (Li Hep)	Alanine Transaminase	Enzymatic tris buffer, modified IFCC LI 820-260	CRH
Plasma (Li Hep)	Ammonia	Enzymatic end point LI 820-260	CRH
Serum, plasma (Li Hep)	Amylase	Enzymatic, blocked pNPG7 LI 820-260	CRH
Serum, plasma (Li Hep)	Bicarbonate	Enzymatic LI 820-260	CRH
Serum, plasma (Li Hep), Urine	Calcium	Arsenazo LI 820-260	CRH
Serum, plasma (Li Hep), Urine	Chloride	Indirect ISE LI 820-260	CRH
Serum, plasma (Li Hep)	Creatine Kinase	IFCC Reference method at 37°C LI 820-260	CRH
Serum, plasma (Li Hep)	Total bilirubin	Vanadate oxidation LI 820-260	CRH
Serum, plasma (Li Hep), urine	Creatinine	Jaffe rate blanked compensated LI 820-260	CRH



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HUMAN BODY FLUIDS (cont'd)	<u>Clinical Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	
Serum, plasma (Li Hep)	C-reactive protein	Siemens Advia 1800 (CRH) Using suppliers methods unless otherwise stated and SOPs: Immunoturbidimetric LI 820-260	CRH
Serum, plasma (Li Hep)	Direct Bilirubin	Vanadate Oxidation LI 820-260	CRH
Serum, plasma (Fluoride)	Glucose	Glucose Hexokinase LI 820-260	CRH
Serum, plasma (Li Hep)	HDL-cholesterol	Direct HDL clearance method LI 820-260	CRH
Plasma (Li Hep)	Lactate	Lactate oxidase colorimetric LI 820-260	CRH
Serum, plasma (Li Hep), urine	Magnesium	Colorimetric xylydyl blue LI 820-260	CRH
Serum, plasma (Li Hep), urine	Phosphate	Phosphomolybdate UV LI 820-260	CRH
Serum, plasma (Li Hep), urine	Potassium	Indirect ISE LI 820-260	CRH
Serum, plasma (Li Hep), urine	Sodium	Indirect ISE LI 820-260	CRH
Serum, plasma (Li Hep)	Total Cholesterol	Enzymatic LI 820-260	CRH
Serum, plasma (Li Hep)	Total protein	Biuret reaction end point LI 820-260	CRH
Serum (Li Hep)	Triglycerides	GPO- Trinder without blank LI 820-260	CRH
Serum, plasma (Li Hep)Urine	Uric Acid	Uricase/peroxidase endpoint LI 820-260	CRH



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HUMAN BODY FLUIDS (cont'd)	<u>Clinical Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	
Serum, plasma (Li Hep)Urine	Urea	Siemens Advia 1800 (CRH) Using suppliers methods unless otherwise stated and SOPs: Urease rate reaction LI 820-260	CRH
Urine, CSF	Protein	Pyrogallol red endpoint LI 820-260	CRH
Serum, plasma (Li Hep)	Salicylate	Enzymatic LI 820-260	CRH
Serum	Ethanol	Enzymatic kinetic LI 820-260	CRH
Serum, plasma (Li Hep)	Paracetamol	Enzymatic LI 820-260	CRH
Serum	eGFR AKI LDL-cholesterol Total cholesterol/HDL ratio Globulin Corrected calcium Anion GAP	Calculations from the results of the methods above:	CRH
Urine	Protein/creatinine ratio Calcium/creatinine ratio Urate/creatinine ratio Timed Electrolytes (Na,Cl,K,Ure)		CRH
Urine	24 hour calcium 24 hr phosphate 24 hour urate 24 hour magnesium 24 hour protein		CRH
Serum, Urine	Creatine Clearance		CRH



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HUMAN BODY FLUIDS (cont'd)	<u>Clinical Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	
Serum, plasma (Li Hep)	Free thyroxine (FT4)	Advia Centaur XPT immunoassay via Chemiluminescence, using suppliers methods unless otherwise stated Indirect IA LI 820-260	CRH
Serum	Beta HCG	Direct IA LI 820-260	CRH
Serum, plasma (Li Hep)	HS Troponin-I	Direct IA LI 820-260	CRH
Serum, plasma (Li Hep)	Thyroid stimulating hormone	Direct IA LI 820-260	CRH
Serum	Detection of monoclonal protein (IgG, IgM, IgA and associated kappa and lambda light chains) with densitometric quantitation	Sebia Hydrasys, agarose gel electrophoresis Serum protein electrophoresis SOP 810 503	HRI
Urine	Detection of bence jones protein (kappa and lambda free light chains with densitometric quantitation)	Urine protein electrophoresis SOP 810 503	HRI
Serum	Isotyping of monoclonal proteins (IgG, IgA, IgM, kappa, lambda)	Serum Immunofixation SOP 810 506	HRI
Urine	Isotyping of kappa and lambda free light chains	Urine immunofixation SOP 810 506	HRI
Serum	Alkaline phosphatase isoenzymes	With lectin substrate SOP 810 505	HRI
Serum, Urine	Osmolality	Advanced instruments Osmo 1 micro-osmometer, Freezing point depression SOP 800 257	CRH HRI



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HUMAN BODY FLUIDS (cont'd)	<u>Clinical Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant Sebia Hydrasys, agarose gel electrophoresis	
CSF	Xanthochromia	Spectrophotometry: Biotek UVIKON spectrophotometer SOP 800 206	HRI
Sweat	Chloride	Elitech Wescor macroduct, coulometry SOP 820 465	HRI
Fluid, Urine	pH	Manual, potentiometric pH meter SOP 800 196	HRI
Whole blood - EDTA/ Fluoride	Glycated Haemoglobin	Menarini HB9210 Boronate Affinity HPLC SOP 820-260	HRI
EDTA whole blood	<u>Haematology examination activities for the purpose of clinical diagnosis</u> Erythrocyte sedimentation rate	In house documented methods incorporating manufacturers' instructions where relevant Starrsed Auto-Compact, infra-red absorption readings of red cell sedimentation SOP 620-769	HRI
EDTA whole blood	Blood film assessment (peripheral); White cell differential counts and morphological comments	Starrsed Inversa, infra-red absorption readings of red cell sedimentation SOP 610-1 Staining by May Gruwald and Giemsa; Manual light microscopy SOP 620-794	CRH HRI, CRH
EDTA whole blood, Gel whole blood, Plain whole blood	Infectious Mononucleosis screen for the Heterophile antibody	Clearview IM kit, immunochromatographic test cartridge format SOP 620 018	HRI, CRH



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant	
EDTA whole blood	Detection of malaria parasites	Thin (Giemsa/May Grunwald) and thick (fields stain A & B) blood film examination using manual microscope SOP 620-781	HRI, CRH
EDTA whole blood	Malaria antigens (HRP2 and pLDH) Detects P Falciparum, Others (P Vivax, P Ovale, P Malariae) and/or mixed infections (excepting P. knowlesi)	CareStart Malaria test kit, monoclonal antibody immunochromatographic test cartridge format SOP 600 620	HRI, CRH
EDTA & Gel whole blood	Sickle cell solubility	Sickle-chex screening kit, qualitative solubility test kit SOP 620 404	HRI, CRH
EDTA whole blood	G6PD	Vilber-Lourmat UV light box, UV fluorescence SOP 620 603	HRI
Citrated Plasma	APTT	Systemex CS-2500 analyser, optical density detection SOP 620 774	HRI, CRH
	Prothrombin Time	SOP 620 773	HRI, CRH
	D-Dimer	SOP 620 775	HRI, CRH
	Lupus anticoagulant screen	SOP 600 243	HRI
	Factor assays	SOP 600 244	HRI
	Von Willebrand screen	SOP 600 245	HRI
	Clauss Fibrinogen	SOP 620 776	HRI, CRH
	Thrombin Time	SOP 620 777	HRI, CRH



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HUMAN BODY FLUIDS (cont'd)	<u>Transfusion examination activities for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturers' instructions where relevant	
EDTA whole blood	Blood Grouping by antigen detection: <ul style="list-style-type: none"> • A B and O groups • Rhesus groups 	BioRad IH-1000, BioRad gel column technique SOP 720-3 Manual blood grouping, BioRad gel column technique SOP 720-9	HRI, CRH
EDTA whole blood	Detection of the following Antibodies: <ul style="list-style-type: none"> • Rhesus blood group antibodies: <ul style="list-style-type: none"> ○ anti-Cw, anti-C, anti-c, anti-D, anti-E, anti-e • Kell system blood group antibodies: <ul style="list-style-type: none"> ○ anti-K, anti-k, anti-Kpa • Kidd blood group antibodies: <ul style="list-style-type: none"> ○ anti-Jka, anti-Jkb • Duffy blood group antibodies: <ul style="list-style-type: none"> ○ anti-Fya, anti-Fyb • Lutheran blood group antibodies: <ul style="list-style-type: none"> ○ anti-Lua • MNS blood group antibodies: <ul style="list-style-type: none"> ○ anti-M, anti-N, anti-S, anti-s • Lewis blood group antibodies: <ul style="list-style-type: none"> ○ anti-Lea, anti-Leb • P blood group antibodies: <ul style="list-style-type: none"> ○ anti-P1 	BioRad IH-1000, BioRad gel column technique (screen) SOP 720-3 Manual antibody screening, BioRad gel column technique SOP 720-10 BioRad IH-1000, BioRad gel column technique (Antibody identification (Panels)) SOP 720-5 Manual antibody identification, BioRad gel column technique SOP 720-13	HRI, CRH



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HUMAN BODY FLUIDS (cont'd)	<u>Transfusion examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	
EDTA whole blood	Compatibility testing;- Compatibility testing of patients plasma with donor cells	BioRad IH-1000, BioRad gel column technique SOP 720-4 Manual crossmatching, BioRad gel column technique SOP 720-11	HRI, CRH
EDTA whole blood	Direct Antiglobulin test (DAT)	BioRad IH-1000, BioRad gel column technique SOP 720-6 Manual Direct antiglobulin test, BioRad gel column technique SOP 720-12	HRI, CRH
EDTA whole blood	Neonatal blood group +DAT • A B and O groups • RhD groups	BioRad IH-1000, BioRad gel column technique SOP 720-7 Manual newborn groups, BioRad gel column technique SOP 720-14	HRI, CRH
EDTA whole blood	Red cell phenotyping for Antigens of the following systems: Rh – C,D,E,c,e Kell – K, Duffy – Fya, Fyb Kidd – Jka, Ss - S, s	BioRad IH-1000, BioRad gel column technique SOP 720-8 Manual BioRad gel column technique (pre prepared cassette) SOP 720-15 Manual BioRad gel column technique (using cells & antisera) SOP 720 038	HRI, CRH
EDTA whole blood	Foetal/maternal haemorrhage screen	Acid Elution Technique using Guest Medical Foetal red cell detection kit (Kleihauer kit) SOP 720-38	CRH



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<p>HUMAN BODY FLUIDS AND TISSUES</p> <p>Swabs (Skin surface wound, eye throat, ear, mouth, genital, nose, pernasal). Tissue samples samples/biopsies Sputum Bronchoalveolar lavage IV cannulae Corneal scrapes Wound drain fluids Sterile site fluids CSF</p>	<p><u>Microbiology examination activities for the purpose of clinical diagnosis</u></p> <p><u>General Microbiology</u></p> <p>Isolation and characterisation of microorganisms of clinical significance</p>	<p>In house documented methods based on related UK Standards for Microbiology Investigations (SMIs), incorporating manufacturers' instructions where relevant</p> <p>Manual inoculation and media culture SOP 320-007 SOP 320-009 SOP 320-069 SOP 320-074 SOP 320-075 SOP 320-077 SOP 320-080 SOP 320-082 SOP 320-089 SOP 320-090 SOP 320-093 SOP 320-095 SOP 320-097 SOP 320-098 SOP 320-104 SOP 320-106 SOP 320-108 SOP 320-111 SOP 320-131 SOP 320-190</p>	<p>CRH</p>



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs), incorporating manufacturers' instructions where relevant	CRH
Pre-Inoculated culture plates –GUM clinic	General Microbiology (cont'd) Isolation and identification of <i>Neisseria gonorrhoeae</i>	Media culture SOP 320-106	
Blood	Culture and detection of microorganisms of clinical significance	Becton Dickinson BDFx – liquid culture/fluorescent growth detection, and manual inoculation and culture SOP 320-002	
Swabs (Nose. Groin, lesions), urine	Screening for Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA)	Manual inoculation and culture on chromogenic medium (Brilliance MRSA) SOP 320-100	
Breast milk	Sterility check	Manual inoculation and media culture SOP 320-171	
Faeces	Isolation of bacterial pathogens <i>Campylobacter</i> spp. <i>Shigella</i> spp. <i>Salmonella</i> sp. <i>Escherichia coli</i> O157 <i>Vibrio</i> spp. <i>Yersinia</i> spp.	Manual inoculation and media culture SOP 320-001	
Rectal swabs, faeces	Detection of Carbapenemase Producing Enterobacteriaceae (CPE)	Manual inoculation and chromogenic media culture SOP 320-518 Confirmation using Coris BioConcept OXA-48 K-SeT immunochromatographic kit SOP-320-513	
Urine	Isolation of bacterial and fungal species of clinical significance	Manual culture methods SOP 320-004	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Cultures isolated in-house from all samples listed above</p>	<p><u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>General Microbiology (cont'd)</p> <p>Identification of microorganisms of clinical significance</p>	<p>In house documented methods based on related UK Standards for Microbiology Investigations (SMIs), incorporating manufacturers' instructions where relevant</p> <p>Manual; biochemical/ monoclonal antibody/ latex-antigen detection methods</p> <p>SOP 320-049 SOP 320-704 SOP 320-705 SOP 320-706 SOP 320-707 SOP 320-708 SOP 320-709 SOP 320-710 SOP 320-711 SOP 320-712 SOP 320-713 SOP 320-714 SOP 320-715 SOP 320-716 SOP 320-717 SOP 320-718 SOP 320-719 SOP 320-720 SOP 320-721 SOP 320-722 SOP 320-723 SOP 320-724</p> <p>Automated; Bruker Maldi-TOF Biotyper using calculation of a similarity of a mass spectrometry based pattern profile of an unknown organism SOP 320-756</p>	<p>CRH</p>



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HUMAN BODY FLUIDS AND TISSUES (cont'd) Cultures isolated in-house from all samples listed above	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd) General Microbiology (cont'd) Identification of microorganisms of clinical significance and Antibiotic susceptibility testing of isolated bacterial pathogens	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs), incorporating manufacturers' instructions where relevant Automated – BD Phoenix ID: Biochemical Reactions to provide a profile which is compared to a database. Sensitivity: MIC using EUCAST SOP 320-758 BD Phoenix	CRH
Urine	Antibiotic susceptibility testing	Manual and/or automated antimicrobial susceptibility testing using EUCAST methodology. Disc diffusion & gradient MIC determination SOP 320-076	
	Colistin susceptibility testing	ComASP Colistin Broth microdilution method LI 320-1187	
CSF	Detection and quantification of red cells, white cells, bacteria, epithelial cells, urinary casts and yeast cells	IRIS IQ Sprint: automated Urine Microscopy system and particle recognition SOP 320-745	
Joint Fluid	Detection and quantification of red cells, white cells	Manual light microscopy using Kova Slide counting chambers. SOP 320-009	
Faeces	Identification of sodium urate crystals and calcium pyrophosphate crystals	Manual light microscopy SOP 320-111	
Faeces, Sellotape slides	Detection of Cryptosporidia	Fluorescent microscopy using Auramine O and Thiazine red stains SOP 320-049	
	Identification of ova, cysts and parasites	Concentration method using centrifugation and light microscopy of concentrate SOP 320-101	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs), incorporating manufacturers' instructions where relevant	CRH
Faeces	General Microbiology (cont'd) Detection of C.difficile GDH Detection of C.difficile toxin A and B	Manual enzyme immunoassay: Techlab C.Diff Quik Chek Manual enzyme immunoassay Techlab C. diff ToxA/B Quick Chek SOP 320-505 (See Molecular section for confirmatory testing)	
Serum	Quantification of Anti Streptolysin O titres	Latex agglutination using Rheumajet ASO Kit SOP 320-099	
Urine	Detection of Legionella and Pneumococcal urinary antigen	Manual immunochromatographic assay using Binax Now Legionella urinary antigen card and Binax Now Streptococcus pneumoniae urinary antigen card SOP 320-128	
Skin scraping Hair cuttings Nail clippings	Mycology Isolation and identification of fungi of clinical significance	Culture, macroscopic examination and fluorescent microscopy SOP 320-010	CRH
Male urethral swabs, urine and throat swabs	Molecular testing Detection of: Clostridioides difficile toxin DNA	Becton Dickinson BD MAX system. Automated extraction, purification and amplification of DNA/RNA SOP 320-757	
Throat/nasal swabs	RSV RNA		
Faeces	Enteric Viral panel: Norovirus GI & GII RNA Rotavirus A RNA Adenovirus F40/41 DNA Sapovirus (genogroups I, II, IV, V) RNA Human Astrovirus (hAstro) RNA		



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs), incorporating manufacturers' instructions where relevant	CRH
Nasopharyngeal (Throat/nasal) swabs	Molecular testing (cont'd) Respiratory panel: Influenza A RNA Influenza A, subtype H1N1/2009 RNA Influenza A subtype H1 RNA Influenza A subtype H3 RNA Influenza B RNA Coronavirus 229E RNA Coronavirus HKU1 RNA Coronavirus NL63 RNA Coronavirus OC43 RNA Parainfluenza Virus 1 RNA Parainfluenza Virus 2 RNA Parainfluenza Virus 3 RNA Parainfluenza Virus 4 RNA RSV A/B RNA Human Metapneumovirus A/B RNA Adenovirus DNA Rhinovirus/Enterovirus RNA Mycoplasma pneumoniae DNA Legionella pneumophila DNA Bordetella pertussis DNA Chlamydia pneumoniae	Qiagen Qiasat DX analyser; RT-PCR SOP 320-765	
Female endocervical, low vaginal, Throat, Rectal swabs and urine specimens	Chlamydia trachomatis Neisseria gonorrhoeae	Hologic Panther Automated PCR analyser, real time PCR SOP 320 774	
Vaginal, labial, vuval, penile, skin swabs	HSV 1 and 2		
Female endocervical, low vaginal swabs and urine specimens	Mycoplasma genitalium		
Female low vaginal, swabs and urine specimens	Trichomonas vaginalis		



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs), incorporating manufacturers' instructions where relevant	CRH
Serum	<p><u>Serology/Virology</u></p> <p>*HIV 1 / 2 Antibody/Antigen detection *Hepatitis B surface antigen *Syphilis / T pallidum IgM / IgG antibody Rubella IgG antibody Hepatitis C antibody Hepatitis core antibody Hepatitis B surface antibody</p>	<p>Siemens Centaur XPT– Random access immunoassay analyser SOP 320-746, SOP 820-350</p> <p>*Including documented -in-house methods to meet the requirements of the IDPS screening programme as defined in the July 2018 version of 'Infectious diseases in pregnancy screening: laboratory QA evidence requirements' (18 July upload) for antenatal screening</p> <p>Diasorin Liason XL Automated Chemiluminescence analyser SOP 320- 760</p>	
Faeces	Calprotectin Helicobacter pylori antigen		
Serum	Chlamydia trachomatis IgG VZV IgG Measles IgG Parvovirus IgG and IgM EBV serology Hepatitis A total antibody Hepatitis A IgM Toxoplasma IgG and IgM Borrelia IgG and IgM CMV IgG and IgM Bordetella pertussis IgG SARS-CoV-2 antibody HBcT2		
Faeces	Detection of Clostridioides difficile GDH Antigen		



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Issue No: 018 Issue date: 01 October 2025

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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs), incorporating manufacturers' instructions where relevant	CRH
Plasma (lithium heparin)	<u>Serology/Virology</u> (cont'd) Detection of interferon-gamma following stimulation of T – cells in-vitro, as an indicator of Tuberculosis specific antigen cell mediated response	Quantiferon TB Gold Plus	
Faeces	Rotavirus antigen	PRO-LAB Proflow rapid membrane immunoassay. SOP 320-747	
	<u>Examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:	CRH
Bronchoscopy samples Cerebrospinal fluid samples Fine needle aspirates Serous fluids Sputum samples Urine samples	<u>Cytopathology</u> Papanicolaou (PAP) staining for nuclear and cytoplasmic detail Reading and interpretation of slides from processed tissues and fluids	Centrifuge Cytospin Microscope SOP 020 091 Non-gynae specimen process Staining: Automated - Sakura Tissue-Tek Prisma staining machine and coverslipper: SOP 020-088 Interpretive Microscopy: SOP 020 091 Non-gynae specimen process SOP 020 091 Non-gynae specimen process SOP LI 020 706 Breast Seroma fluid SOP 020-713 Thyroid cancers SOP 020-680 Bronchial and lung cancers SOP 020-677 Kidney tumours SOP 020-678 Bladder tumours SOP 020-519 Lymphnodes	



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Tissue samples</p>	<p><u>Examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p><u>Histopathology</u></p>	<p>Macroscopic and Microscopic examination:</p> <p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Specimen dissection: SOP 020-300 Cut up SOP 020-683 Biomedical Scientist Cut up SOP 020-699 Higher specialist Advanced practitioner and expert practitioner cut up SOP 020-603 Foetus, placenta and POC handling SOP 020-714 Gynaecological dissection SOP 020-715 Head and neck dissection SOP 020-800 Osteoarticular and soft tissue dissection SOP 020-804 Placenta dissection SOP 020-805 Haemaopoetic dissection SOP 020-803 Endocrine dissection SOP 020-801 Genitourinary dissection</p> <p>Tissue processing: Leica ASP 6025 tissue processors for fatty tissue and routine histology tissue. Thermo Scientific Excelsior tissue processor for diagnostic biopsies and cell blocks. Histocore Epredia Arcadia embedders. SOP 020-702.Tissue processing</p> <p>Embedding: SOP 020-600 Embedding</p> <p>Decalcification: SOP 020-604 Decalcification</p> <p>Microtomy: Leica RM 2245 microtome x2 Leica RM 2235 microtome x4 SOP 020-070 Microtomy</p>	<p>CRH</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Tissue samples (cont'd)</p>	<p><u>Examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p>Histopathology (cont'd)</p> <p>H&E staining for tissue architecture and nuclear detail</p> <p>Papanicolaou (PAP) staining for nuclear and cytoplasmic detail</p>	<p>Macroscopic and Microscopic examination:</p> <p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Frozen sections for urgent diagnostic histopathology : Eprelia HM525N cryostatSOP 020-115 Frozen sections</p> <p>Haematoxylin and Eosin staining Papanicolaou (PAP) staining: Sakura Tissue-Tek Prisma staining machine and coverslipper: SOP 020-088 stainer/coverslipper for automated H&E and PAP staining</p> <p>SOP 020-115 Rapid H&E on frozen sections only</p>	<p>CRH</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd) Tissue samples (cont'd)	<p><u>Examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p>Histopathology (cont'd)</p> <p>Special staining for the identification of:</p> <p>Mucins</p> <p>Carbohydrates</p> <p>Elastic fibres</p> <p>Helicobacter</p> <p>Gram +ve and –ve organisms</p> <p>Fungi</p> <p>Basement membranes</p> <p>Amyloid</p> <p>Collagen</p> <p>Connective tissues</p> <p>Melanin</p> <p>Connective tissues to remove melanin pigment</p> <p>Mast cells</p>	<p>Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Special staining: Manual methods according to UKNEQAS CPT best methods and Bancroft, J.D. & Gamble, M. (2003) Theory and practice of histological techniques, 5th edition, Edinburgh. Churchill Livingstone. SOP 020-537 Special stains</p> <p>Alcian blue AB/PAS</p> <p>Diastase- PAS</p> <p>Elastic Van Gieson</p> <p>Giemsa</p> <p>Gram-Twort</p> <p>Grocott</p> <p>Hexamine Silver</p> <p>Highmans Congo Red</p> <p>HVG</p> <p>M.S.B. for connective tissues</p> <p>Masson Fontana</p> <p>Masson Trichrome</p> <p>Melanin Bleach</p> <p>Methylene blue</p>	CRH



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Tissue samples (cont'd)</p>	<p><u>Examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p>Histopathology (cont'd)</p> <p>Special staining for the identification of (cont'd):</p> <p>Mucins, fungi and carbohydrates</p> <p>Ferric iron</p> <p>Reticulin fibres</p> <p>Mineralised bone and calcium deposits</p> <p>TB bacilli</p>	<p>Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Special staining: Manual methods according to UKNEQAS CPT best methods and Bancroft, J.D. & Gamble, M. (2003) Theory and practice of histological techniques, 5th edition, Edinburgh. Churchill Livingstone. SOP 020-537 Special stains</p> <p>P.A.S.</p> <p>Perl's Prussian Blue</p> <p>Gordon and Sweets Reticulin</p> <p>Von Kossa</p> <p>Z N</p>	<p>CRH</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd) Tissue samples and cell blocks	<p><u>Examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p>Histopathology (cont'd)</p> <p>Immunochemistry for the identification of:</p> <p>Cytokeratins in epithelial cells</p> <p>Cytokeratins in epithelial cells</p> <p>Protein present in lymphocytes</p> <p>Antigen in epithelium</p> <p>Antigen in fallopian tube epithelium</p> <p>Antigen present in colon cancer</p> <p>Protein in mesothelial cells</p> <p>Cytokeratins in epithelial cells</p> <p>Antigen on T lymphocytes</p> <p>Antigen on some lymphoid cells</p> <p>Antigen on B lymphocytes</p> <p>Reed-Sternberg cells</p> <p>Endothelial cells</p> <p>High grade CIN</p> <p>Endothelial cells</p>	<p>Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Immunochemistry: Roche Ventana Benchmark Ultra-automated method SOP 020-116 immunohistochemistry</p> <p>Using antibodies to:</p> <p>34BE12</p> <p>AE1/3</p> <p>BCL-2</p> <p>BEREP4</p> <p>CA125</p> <p>CA19.9</p> <p>CALRETININ</p> <p>CAM 5.2</p> <p>CD3</p> <p>CD10</p> <p>CD20</p> <p>CD30</p> <p>CD31</p> <p>P16</p> <p>CD34</p>	CRH



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Tissue samples and cell blocks (cont'd)</p>	<p><u>Examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p>Histopathology (cont'd)</p> <p>Immunochemistry for the identification of (cont'd):</p> <p>Nerve and neuroendocrine cells</p> <p>Macrophages and mononuclear cells</p> <p>Antigen in intestinal epithelium</p> <p>Protein in gastro-intestinal cells</p> <p>Granules in neuroendocrine cells</p> <p>Cytokeratin in epithelium</p> <p>Cytokeratin in specific epithelium</p> <p>Cytokeratin in gastro-intestinal cells</p> <p>Smooth and striated muscle cells</p> <p>Protein in epithelial cells</p> <p>Protein in epithelial cells</p> <p>Nuclear receptor</p>	<p>Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Immunochemistry: Roche Ventana Benchmark Ultra-automated method SOP 020-116 immunohistochemistry</p> <p>Using antibodies to:</p> <p>CD56</p> <p>CD68</p> <p>CDX2</p> <p>CEA</p> <p>CHROMOGRANIN</p> <p>CK 5/6</p> <p>CK7</p> <p>CK20</p> <p>DESMIN</p> <p>E-CADHERIN</p> <p>EMA</p> <p>ER</p>	<p>CRH</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd) Tissue samples and cell blocks (cont'd)	<p><u>Examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p>Histopathology (cont'd)</p> <p>Immunocytochemistry for the identification of (cont'd):</p> <p>Urothelial carcinoma in prostate and bladder lesions; breast carcinomas of epithelial origin</p> <p>Glycoprotein in specific epithelium</p> <p>Activated/neoplastic melanocytes</p> <p>Helicobacter pylori bacterium</p> <p>Hormone in testicular cells</p> <p>Nuclear protein in proliferating cells</p> <p>Lymphocytes</p> <p>Cytokeratin in epithelial cells</p> <p>Presence or absence of a mutant copy of the p53 gene</p> <p>Nuclear protein in epithelial cells</p> <p>Antigen in melanocytes</p> <p>Enzyme produced by trophoblasts</p> <p>Nuclear receptor</p>	<p>Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Immunocytochemistry: Roche Ventana Benchmark Ultra-automated method SOP 020-116 immunohistochemistry</p> <p>Using antibodies to:</p> <p>GATA3</p> <p>GCDFP</p> <p>HMB45</p> <p>H PYLORI</p> <p>INHIBIN</p> <p>KI67 (MIB 1)</p> <p>LCA (CD45)</p> <p>MNF116</p> <p>P53</p> <p>P63</p> <p>PANMEL</p> <p>PLAP</p> <p>PR</p>	CRH



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Tissue samples and cell blocks (cont'd)</p>	<p><u>Examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p>Histopathology (cont'd)</p> <p>Immunocytochemistry for the identification of (cont'd):</p> <p>Protein in prostatic epithelium</p> <p>Protein in nerve cells</p> <p>Smooth muscle cells</p> <p>Smooth muscle cells</p> <p>Cells within the muscularis propria</p> <p>Granules in neuroendocrine cells</p> <p>Nuclear protein in lung and thyroid</p> <p>Filament in mesenchymal cells</p> <p>Protein in specific tissues</p> <p>Oncoprotein in breast cancer</p> <p>MMR Proteins</p> <p>CMV</p>	<p>Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Immunocytochemistry: Roche Ventana Benchmark Ultra-automated method SOP 020-116 immunohistochemistry</p> <p>Using antibodies to:</p> <p>PSA</p> <p>S100</p> <p>SMA</p> <p>SMM</p> <p>SMOOTHELIN</p> <p>SYNAPTOPHYSIN</p> <p>TTF-1</p> <p>VIMENTIN</p> <p>WT1</p> <p>SOP 020-079 Her 2 testing Using antibodies to: HER2</p> <p>MLH-1 MSH-2 MSH6 PMS2</p> <p>CMV</p>	<p>CRH</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u>	Macroscopic and Microscopic examination:	CRH
Tissue samples (cont'd)	<u>Histopathology (cont'd)</u> Reading and interpretation of slides from processed tissues and fluids (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant: Interpretive Microscopy: SOP 020-670 Bowel cancer screening specimens SOP 020-079 Her 2 testing SOP 020 115Reporting of frozen sections SOP 020-067 Sentinel lymph nodes	
HUMAN BODY FLUIDS	<u>Andrological examination activities for the purposes of clinical diagnosis</u>		CRH
Semen	<u>Post vasectomy:</u> Detection of motile/non-motile sperm	Based on 2016 Laboratory guidelines for post vasectomy semen analysis: Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons) Manual method using large volume chambers/ manual microscopy and documented in-house procedure SOP 020-809 Post vasectomy specimens	



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Semen (cont'd)</p>	<p><u>Andrological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Fertility testing:</u></p> <p>Volume</p> <p>pH</p> <p>Sperm morphology including TZI scoring and Round Cell Count</p> <p>Sperm concentration</p> <p>Sperm motility</p> <p>Sperm vitality</p>	<p>Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method / documented in-house procedure SOP 020-810 Infertility tests</p> <p>Volume/weight</p> <p>Colorimetric strips</p> <p>Stained slides (Papanicolau) microscopy (Bright field)</p> <p>Improved Neubauer counting chambers and Microscopy (Phase contrast)</p> <p>Microscopy (Phase contrast)</p> <p>Stained slide (Eosin dye exclusion test) microscopy (Bright field)</p>	<p>CRH</p>
END			