


# Schedule of Accreditation

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## United Kingdom Accreditation Service

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

 <b>9769</b> <b>Accredited to ISO 15189:2012</b>	<b>Southwest Pathology Services LLP</b>  <b>Issue No: 007 Issue date: 09 January 2024</b>	
	<b>Lisieux Way</b> <b>Taunton</b> <b>TA1 2LB</b>	<b>Contact: Derek Truman</b> <b>Tel: +44 (0) 1823 346 700</b> <b>E-Mail: Derek.Truman@tst.nhs.uk</b> <b>Website: www.southwestpathology.com</b>
<b>Testing performed at the above address only</b>		

<b>Location details</b>		<b>Activity</b>	<b>Location code</b>
<b>Address</b> ESL Laboratory Musgrove Park Hospital Taunton TA1 5DA	<b>Local Contact</b> Dr Andrzej Karmolinski Dr Katy Marden Dr Lisa Lowry Dr Sadie Thomas	Histology Microbiology on-call service Blood Sciences including Transfusion	M
<b>Address</b> Yeovil District Hospital Higher Kingston Yeovil BA21 4AT	<b>Local Contact</b> Dr Edwin Cooper	Histology Blood Sciences including Transfusion	Y
<b>Address</b> Hub Laboratory Southwest Pathology Services Lisieux Way Taunton TA1 2LB	<b>Local Contact</b> Dr Andrzej Karmolinski Dr Katy Marden Dr Lisa Lowry Dr Sadie Thomas	Non-Gynae Cytology Microbiology Blood Sciences (including Immunology) Andrology	H



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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
Serum, Heparin, Plasma	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	In-house documented methods incorporating manufacturers' instructions as required	
	Quantification of:	Beckman Coulter AU5800 (H), AU700 (M) and AU480 (Y) using procedure and measurement principle as stated:	
	Albumin	SOPBVS72, BCG colourimetric method	M, Y, H
	Albumin	SOPBVS171, BCP colourimetric method	H
	Alkaline Phosphatase (ALP)	SOPBVS74, Colourimetric	M, Y, H
	Alpha-1-Antitrypsin	SOPBVS87, Immunoturbidimetric	H
	Alanine Aminotransferase (ALT)	SOPBVS52, Colourimetric	M, Y, H
	Angiotensin Converting Enzyme (ACE)	SOPBVS116, Colourimetric	H
	Asparate Aminotransferase (AST)	SOPBVS76, Colourimetric	M, Y, H
	Bicarbonate	SOPBVS56, Colourimetric	M, Y, H
	Bile Acids	SOPBVS28, Enzymatic/ Colourimetric	M
	Complement 3 (C3)	SOPBVS95, Immunoturbidimetric	H
	Complement 4 (C4)	SOPBVS96, Immunoturbidimetric	H
	Carbamazepine	SOPBVS57, Immunoturbidimetric	M, Y, H
	Cholesterol	SOPBVS78, Enzymatic/ Colourimetric	M, Y, H
	Creatine Kinase (CK)	SOPBVS79, Enzymatic/ Colourimetric	M, Y, H
	C-Reactive Protein (CRP)	SOPBVS80, Immunoturbidimetric	M, Y, H



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Serum, Heparin, Plasma (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
	Quantification of: (cont'd)	Beckman Coulter AU5800 (H), AU700 (M) and AU480 (Y) using procedure and measurement principle as stated:	
	Digoxin	SOPBVS98, Immunoturbidimetric	M, Y, H
	Direct Bilirubin (Conjugated Bilirubin)	SOPBVS58, Colourimetric	M, Y, H
	Gentamicin	SOPBVS110, Cedia Immunoassay	M, Y, H
	Gamma Glutamyltransferase (GGT)	SOPBVS103, Colourimetric	M, Y, H
	High Density Lipoprotein (HDL)	SOPBVS59, Immunological/ Colourimetric	M, Y, H
	IgA	SOPBVS100, Immunoturbidimetric	H
	IgG	SOPBVS101, Immunoturbidimetric	H
	IgM	SOPBVS102, Immunoturbidimetric	H
	Iron	SOPBVS60, Colourimetric	M, Y, H
	Methotrexate	SOPBVS113, Enzyme Immunoassay	M
	Paracetamol (Acetaminophen)	SOPBVS39, Enzymatic/ Colourimetric	M, Y
	Phenobarbitone	SOPBVS65, Cedia Immunoassay	M, Y, H
	Phenytoin	SOPBVS62, Cedia Immunoassay	M, Y, H
	Rheumatoid Factor	SOPBVS115, Immunoturbidimetric	H
	Salicylate	SOPBVS27, Enzymatic/ Colourimetric	M, Y
	Theophylline	SOPBVS107, Cedia Immunoassay	M, Y



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Serum, Heparin, Plasma (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
	Quantification of: (cont'd)	Beckman Coulter AU5800 (H), AU700 (M) and AU480 (Y) using procedure and measurement principle as stated:	
	Tobramycin	SOPBVS129, Cedia Immunoassay	M
	Total Bilirubin	SOPBVS77, Colourimetric	M, Y, H
	Total Protein	SOPBVS63, Colourimetric	M, Y, H
	Transferrin	SOPBVS119, Immunoturbidimetric	H
	Triglyceride	SOPBVS118, Enzymatic/ Colourimetric	M, Y, H
Serum, Heparin, Plasma, Urine	Vancomycin	SOPBVS111, Immunoturbidimetric	M, Y
	Amylase	SOPBVS53, Colourimetric	M, Y, H
	Calcium	SOPBVS54, Colourimetric	M, Y, H
	Chloride	SOPBVS105, ISE	M, Y, H
	Creatinine	SOPBVS55, Colourimetric	M, Y, H
	Magnesium	SOPBVS82, Colourimetric	M, Y, H
	Phosphate	SOPBVS109, Colourimetric	M, Y, H
	Potassium and Sodium	SOPBVS105, ISE	M, Y, H
	Urea	SOPBVS104, Enzymatic/ Colourimetric	M, Y, H
	Uric Acid	SOPBVS106, Enzymatic/ Colourimetric	M, Y, H



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Urine	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
	Quantification of: (cont'd)	Beckman Coulter AU5800 (H), AU700 (M) and AU480 (Y) using procedure and measurement principle as stated:	
	Methadone	SOPBVS93, Cedia Immunoassay	M
	Opiates	SOPBVS94, Cedia Immunoassay	M
	Urine Albumin (Microalbumin)	SOPBVS117, Immunoturbidimetric	H
	Amphetamine/Ecstasy	SOPBVS88, Cedia Immunoassay	M
	Barbiturate	SOPBVS89, Cedia Immunoassay	M
	Benzodiazepine	SOPBVS90, Cedia Immunoassay	M
	Cannabinoids (THC)	SOPBVS91, Cedia Immunoassay	M
	Cocaine Metabolite (Benzoylecgonine)	SOPBVS92, Cedia Immunoassay	M
Urine, CSF	Urine, CSF Protein	SOPBVS123, Colourimetric	M, Y, H
Serum	Lithium	SOPBVS112, Colourimetric	M, Y, H
Serum, Heparin, Plasma, EDTA	Lactate Dehydrogenase (LDH)	SOPBVS61, Colourimetric	M, Y, H
Serum, Heparin, Plasma, Fluoride/ Oxalate Plasma, Urine	Alcohol	SOPBVS73, Enzymatic/ Colourimetric	M, Y, H
Serum, Heparin, Plasma, Fluoride/ Oxalate Plasma, Urine, CSF	Glucose	SOPBVS81, Enzymatic/ Colourimetric	M, Y, H



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	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
	Quantification of: (cont'd)	Beckman Coulter AU5800 (H), AU700 (M) and AU480 (Y) using procedure and measurement principle as stated:	
Heparin, Plasma,	Ammonia	SOPBVS75, Enzymatic/ Colourimetric	M, Y
Fluoride, Plasma, CSF	Lactate	SOPBVS121, Enzymatic/ Colourimetric	M, Y
Serum (trace metal tube), Heparin plasma (paediatric tube)	Zinc	SOPBVS70, Colourimetric	M
Faeces	Faecal Electrolytes	SOPBSB51, ISE	M, Y
Faeces	Faecal Elastase	SOPBSB50 using Sysmex DS2, Elisa test	H
Serum, Plasma, Urine	Osmolality	SOPBSB6 using Advanced Instruments micro-osmometer, Freezing point depression	M, Y
CSF	Xanthochromia	SOPBSB4 using Thermo Evolution 201 Spectrophotometer	M, Y
Sweat	Sweat Chloride Analysis	SOPBSB45 using Elitech Chlorocheck 3400	H



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Serum, Heparin, Plasma	<u>Endocrinology, Immunoassay examination activities for the purpose of clinical diagnosis</u>	In-house documented methods incorporating manufacturers' instructions as required	
	Quantification of:	Beckman Coulter Dxl, Immunoenzymatic Chemiluminescent analysis using procedure:	
	Alpha FetoProtein (AFP)	SOPBVS2	H
	CA 125	SOPBVS4	H
	CA 153	SOPBVS25	H
	CA199	SOPBVS5	H
	Carcinoembryonic Antigen (CEA)	SOPBVS6	H
	Cortisol	SOPBVS7	M, H
	Ferritin	SOPBVS13	M, H
	Folate	SOPBVS9	H
	Follicle Stimulating Hormone (FSH)	SOPBVS12	H
	Free T3	SOPBVS10	M, Y, H
	Free T4	SOPBVS11	M, Y, H
	Human Chorionic Gonadotrophin (Hcg)	SOPBVS14	M, Y, H
	IgE	SOPBVS15	H
	Luteinising Hormone (LH)	SOPBVS16	H
	Oestradiol	SOPBVS17	M, Y, H
	Parathormone (PTH)	SOP BVS21	M, H
	Prolactin	SOPBVS18	H



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Serum, Heparin, Plasma (cont'd)	<u>Endocrinology, Immunoassay examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
	Quantification of: (cont'd)		
	Prostate Specific Antigen (PSA)	Beckman Coulter Dxl, Immunoenzymatic Chemiluminescent analysis using procedure: SOPBVS20	H
	Testosterone	SOPBVS22	H
Serum, Heparin, Plasma	Thyroperoxidase Antibody (TPO)	SOPBVS1	H
	Thyroid Stimulating Hormone (TSH)	SOPBVS23 using Beckman	M, Y, H
	Vitamin B12	SOPBVS3	H
	Vitamin D (25-OH Vitamin D)	SOPBVS38	H
Serum, Heparin, Plasma		Beckman Coulter Access2 Immunoenzymatic Chemiluminescent analysis using procedure:	
	Cortisol	SOPBVS7	M, H
	Ferritin	SOPBVS13	M, H
	Free T3	SOPBVS10	M, Y, H
	Free T4	SOPBVS11	M, Y, H
	Human Chorionic Gonadotrophin (Hcg)	SOPBVS14	M, Y, H
	Oestradiol	SOPBVS17	M, Y, H
	Parathormone (PTH)	SOP BVS21	M, H
	Progesterone	SOPBVS19	M, Y, H



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	Thyroid Stimulating Hormone (TSH)	Beckman Coulter Access2 Immunoenzymatic Chemiluminescent analysis using procedure: SOPBVS23	M, Y, H
	Troponin I	SOPBVS24	M, Y
Plasma	N-terminal pro B-type Natriuretic peptide (NT Pro BNP)	SOPBVS26 using Roche Cobas e411, Immunoenzymatic Chemiluminescent	H
Serum, Heparin, Plasma	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	Calculated tests using LabCentre System and procedure SOP RLR1	
	AKI Risk Flag Cholesterol/HDL Ratio Adjusted Calcium eGFR LDL Cholesterol Non-HDL Cholesterol		M, Y, H
	Osmolar Gap		M, Y
Urine	Transferrin Saturation		H
	24 Hour Urine		M, Y
	Calcium/Creatinine Ratio		
	24 Hour Urine Calcium		M, Y
	24 Hour Urine Potassium		M, Y
	24 Hour Urine Magnesium		M, Y
	24 Hour Urine Sodium		M, Y
	24 Hour Urine Phosphate		M, Y
	24 Hour Urine Uric Acid		M, Y
	24 Hour Urine Urea		M, Y
	24 Hour Urine Creatinine		M, Y, H
	24 Hour Urine Protein		M, Y



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Urine (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Calculated tests using LabCentre System and procedure SOP RLR1	
	Urine Microalbumin/Creatinine Ratio		H
	Urine Calcium/Creatinine Ratio		M, Y
	Urine Protein/Creatinine Ratio		M, Y, H
	24 Hr Creatinine Clearance		M, Y, H
Urine, Serum	4 Hr Creatinine Clearance		M, Y, H
Serum	Anion Gap Kappa/Lambda Light Chain Ratio		M, Y, H H
CSF	Xanthochromasia Interpretive Comment		M, Y
Serum, Plasma	<u>Immunology examination activities for the purpose of clinical diagnosis</u>	In-house documented methods incorporating manufacturers' instructions as required	
	Detection of:	BioPlex 2200 System Multiplex Flow Immunoassay using procedures IMD4, IMS16 and:	
	IgA TTG	IMS17	H
	IgG ANA (dsDNA and ENA)	IMS18	H
	IgG Cardiolipin & IgM Cardiolipin	IMS19	H
Serum	IgG CCP	IMS21	H
	IgG MPO, PR3 and GBM	IMS20	H



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Serum	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
	Detection of: (cont'd)	QUANTA-Lyser 2, NOVA View indirect immunofluorescent assay using procedures IMD9, IMD3, IMS22, IMS23, IMS24 and:	
	IgG ANCA	IMS6	H
	IgG AIP	IMS7	
Serum, Urine	IgG ANA	IMS8	H
	IgA & IgG Endomysial	IMS9	H
Serum, Urine	Paraprotein quantitation	BSB7, Sebia Capillarys 2 Flex-piercing, capillary electrophoresis	H
Serum	Free light chains	Binding Site Optilite, BVS166 Immunoturbidimetric method	H
CSF, Bone Marrow, Pleural Fluid EDTA Whole Blood	Leucocyte Immunophenotyping	NAVIOS Flow Cytometry using procedure, HSB34, and: HSB31	H
EDTA Whole Blood	CD4 Enumeration (with absolute count beads)	HSB37	H
Citrate Plasma	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	ACL TOP 350 and 550 HSB54	
	PT/INR	HSB55, Coagulation Method	M, Y, H
	APTT	HSB56, Coagulation Method	M, Y, H
	D-Dimers	HSB58, Immunoassay	M, Y, H
	Fibrinogen	HSB57, Coagulation Method	M, Y, H



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Citrate Plasma (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
		ACL TOP 350 and 550 HSB54	
	Thrombin time	HSB69, Coagulation Method	M, H
	LMWH Heparin assay	HSB75 Chromogenic	M
	FVIII	HSB65, Chromogenic	M, H
	Lupus Anticoagulant	HSB66 Coagulation Method	H
	Thrombophilia Screen: Protein C Protein S ATIII APCR	HSB67 Chromogenic Immunoassay Chromogenic Coagulation Method	H
	Inhibitor (Bethesda assay)	HSB63, Coagulation Method	H
	Intrinsic factor assays (FVIII, FIX, FXI, FXII)	HSB61, Coagulation Method	M, H
	Extrinsic factor assay (FII, FV, FVII, FX)	HSB64, Coagulation Method	H
	vWF Activity	HSB62, Immunoturbidimetric	H
	vWF Antigen	HSB62,, Immunoassay	H
	Correction tests	HSB68, Coagulation Method	M, H
	Rivaroxaban assay	HSB75, Chromogenic	M
	Apixaban	HSB75, Chromogenic	M



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EDTA Blood	<u>Haematology examination activities for the purpose of clinical diagnosis</u> (cont'd)  Full Blood Count: WBC, RBC, PLT Haemoglobin MCV Neutrophils, Lymphocytes, Monocytes, Eosinophils, LUC Basophils HCT MCH MCHC RDW % HYPO Retic	Advia 2120 by flow cell and colorimetric methods using procedures HSB4, HSB5, HSB6 and HSB7)	M, Y, H
EDTA Blood	Erythrocyte Sedimentation Rate (ESR)	Alifax analyser HSB8 SOP	M,Y,H
	Detection & speciation of malaria parasites <i>Plasmodium falciparum</i> and pan-detection for: <i>Plasmodium malariae</i> , <i>Plasmodium ovale</i> & <i>Plasmodium vivax</i>	HSB10 SOP  Commercial Apacor CareStart Malaria Kit	M, Y, H
	Manual Method <i>Plasmodium falciparum</i> <i>Plasmodium malariae</i> <i>Plasmodium ovale</i> <i>Plasmodium vivax</i> <i>Plasmodium knowlesi</i>	Fields Staining (Thick films), Giemsa Staining (Thin films)	
	G6PD Screen	HSB2 SOP, BinaxNow G6PD	M
	Viscosity	HSB16 SOP, capillary tube	M



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EDTA Blood/Bone Marrow	<u>Haematology examination activities for the purpose of clinical diagnosis</u> (cont'd)  Detection of normal and abnormal morphologies	In-house documented methods incorporating manufacturers' instructions as required  Light microscopy analysis of slide following manual staining (Wright and Perls) using procedure HSB9 SOP	M
CSF, Ascitic Fluid	Morphological assessment of cell types present in serous fluids	Light microscopy analysis of cytopins produced using the Thermo Fisher Cytospin 4 and procedures HSB13	M
EDTA Blood	Sickle cell solubility	Documented in-house methods to meet the requirements of the Sickle Cell and Thalassaemia (SCT) screening programme as defined in the July 2018 'NHS Sickle Cell and Thalassaemia Screening Programme: laboratory QA evidence requirements.'	M, Y, H
EDTA Whole Blood	Haemoglobin A1c	COS19 SOP, Manual solubility test	
	Haemoglobinopathy Screen to determine HbA2 and HbF levels and the presence of abnormal haemoglobins	Tosoh G8 Cation Exchange HPLC and procedures:  SOPHSB20  SOPHSB18	H  H



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	<u>Microbiology examination activities for the purpose of clinical diagnosis</u>	In-house documented methods incorporating manufacturers' instructions as required	
Superficial Wound Swabs	Isolation and characterisation of micro-organisms of clinical significance	Kiestra Total Laboratory Automation microscopy, manual gram stain, and manual culture using procedure MGB21 and  MGB3 Examination of superficial wound swabs	H, M
Deep Seated Wound Swabs Pus, Drain fluid, Bile, Aspirates, Tissues, Bone, Prosthetic Joints		MGB14 Examination of Pus, Pus swabs from deep seated infections SOP MME4 Microbiology stains	H, M
Body fluids from normally sterile sites		MGB8 – Examination of Body fluids from normally sterile sites MME4 - Microbiology stains MME7 – Performing Cell Counts using counting chambers	H, M
Continuous ambulatory peritoneal dialysis fluid (CAPD)		MGB9 Examination of Continuous ambulatory peritoneal dialysis fluid MME4 Microbiology stains	H, M
CSF and Shunts		MGB7 Examination of CSF and CSF shunts MME4 Microbiology stains MME7 Performing cell counts using counting chambers	H, M
Genital Swabs/Fluids		MGB18 Bacteriological Examination of GU specimens MME4 Microbiology stains	H, M
Eye Swabs, Canalicular Pus, Corneal Scrapes and Intraocular Fluids		MGB6 Eye swabs, canalicular pus, corneal scrapes and intraocular fluids MME4 Microbiology stains	H, M
ENT Swabs including - Ear, Nose, Throat, Mouth, Pernasal Swabs		MGB4 Examination of ear, nose, mouth, throat and pernasal swabs	H, M



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Sputum, Bronchial washing and associated respiratory samples, Anstral washouts  Urine   Urine  Faeces	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
	Isolation and characterisation of micro-organisms of clinical significance (cont'd)	Kiestra Total Laboratory Automation microscopy, manual gram stain, and manual culture using procedure MGB21 and  MGB15 Examination of Sputum and associated specimens MME4 Microbiology stains	H
		the automated microscopy using Beckman IQ200 Analyser Laminar Flow using procedure MGB26 and MGB16 Examination of Urine Specimens	H
	Isolation and characterisation of micro-organisms of clinical significance	Manual microscopy and culture using procedure MGB16 Examination of Urine Specimens.	H, M
	Detection of GDH	Techlab C Diff Chek 60 kit on Dynex DS2 analyser enzyme Immunoassay (EIA) MGB1 Detection of Clostridium difficile and its toxins in faeces VSB18 DS2 analyser	H
	Detection of GDH and Toxins A & B	Techlab Lateral flow C. difficile Quik Chek (EIA) card test	H



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**Southwest Pathology Services LLP**  
**Issue No: 007    Issue date: 09 January 2024**

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Faeces	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)  Detection and identification of the following:  Ova, cysts and parasites	In-house documented methods incorporating manufacturers' instructions as required  Techlab Cryptosporidium and Giardia kit on Dynex DS2 analyser enzyme Immunoassay (EIA) Direct and concentration microscopy for faecal ova, cysts and parasites. VSB18 DS2 analyser MGB13 Examination of Enteric samples	H
Faeces	Confirmatory test to distinguish Cryptosporidium and Giardia after EIA test as above	Techlab Cryptosporidium and Giardia Quick test – lateral flow device. MGB13 Examination of Enteric samples.	
Perianal swab	Enterobius vermicularis ova	Detection of ova using light microscopy MGB13 Examination of Enteric samples	H
Blood, Bone Marrow and Transfusion Packs	Isolation of microorganisms of clinical significance	BacTec FX blood culture system, automated monitoring of culture bottles. Agar plate culture of positive culture bottles MGB10 Examination of Blood Cultures, bone marrow and transfusion packs  Kiestra Total Laboratory Automation, chromogenic agar plate culture MGB21 Kiestra TLA and	H, M, Y



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<p>MRSA &amp; MSSA Screening Swabs, Fluids, Respiratory Samples and Tissues</p> <p>Bacterial 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>Isolation of microorganisms of clinical significance</p>	<p>In-house documented methods incorporating manufacturers' instructions as required</p> <p>MGB22 MRSA &amp; MSSA screening</p>	H, M
	Antimicrobial susceptibility testing of clinically significant bacteria	<p>EUCAST Disc Diffusion</p> <p>MME22 antimicrobial susceptibility testing</p>	H
		<p>Minimum Inhibitory Concentration (MIC) Testing Strip / agar plate culture</p> <p>MME22 Antimicrobial susceptibility testing</p>	H
		<p>BD Phoenix System, automated ID / AST System</p> <p>MGB20 Phoenix ID and AST Analyser</p>	H
		<p>ESBL and AmpC confirmation by combination disc testing using procedure MME24</p>	H
Fungal isolates from samples listed above	Antifungal Susceptibility testing	<p>Sensitite YeastOne, manual MIC microplate method</p> <p>MME17 Antifungal susceptibility testing</p>	H



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Bacterial cultures isolated in-house from all samples listed above	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
	Automated Identification of microorganisms of clinical significance from culture	Bruker Maldi-Tof automated ID System MGB28 Using the Maldi-Tof	H
	Manual Identification of microorganisms of clinical significance from culture	Biochemical tests - Oxidase test, Catalase test, MGB25 Bacterial Identification MME4 - Microbiology stains	H
	Identification of Staphylococcal isolates	Tube Coagulase test, Prolex Staph Xtra latex MGB25 Bacterial Identification	H
	Serological identification of groups A, B, C, D, F and G of the Lancefield groups of Streptococci grown on agar plates	Pro-Lab Strep grouping kit MGB25 Bacterial Identification	H
	Detection of Salmonella Polyvalent 'O' (PSO) and 'H' (PSH), plus single factor 'O' and 'H' antisera. Detection of Shigella and Vibrio using specific antisera	Agglutination using Salmonella, Shigella and Vibrio agglutination sera. MGB25 Bacterial Identification	H
	Confirmatory identification of Neisseria gonorrhoeae	Gram stain, oxidase test, catalase test and Gonocheck II tube hydrolysis assay. MGB25 Bacterial Identification. MME4 Microbiology stains	H
	Bacterial differentiation	Gram stain and microscopy MME4 Microbiological Stains	H
	Multi-resistant Gram Negative Bacilli (GNB) Screen	Selective plate agar culture SOP MGB32 Carbapenamase screening	H



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Bacterial cultures isolated in-house from Faeces, Rectal samples	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)  Confirmation of E. coli 0157	In-house documented methods incorporating manufacturers' instructions as required  E. coli 0157 latex MME8 O157 Prolab Latex Agglutination	H
Vaginal Smears	Diagnosis of Bacterial vaginosis	Gram stain and microscopy in accordance with Hays Criteria. MGB18 Bacteriological Examination of GU Specimens MME4 Microbiology stains	H
Aspirates, Fluids, Sputum, Tissue, Urine	Isolation and presumptive identification of Acid-alcohol fast bacilli (inc. Mycobacterium spp.)	Direct microscopy for Acid Fast Bacilli (AFB) MGIT Mycobacteria liquid culture system, automated monitoring of culture bottles Solid slope culture, manual inoculation. MGB12 Examination of specimens for Acid Fast bacilli MME4 Microbiology stains	H
Skin, Hair, Nail, Mucous membranes, Subcutaneous biopsies, Sinus samples, Clear adhesive tape strips	Isolation & identification of fungal pathogens including: Filamentous moulds Yeasts	Microscopic examination of fungal hyphae using KOH preparation Calcofluor statin. Agar plate culture. MGB22 Investigation of mycology	H
Yeast isolated in-house from all samples listed above	Yeast Isolate identification	Bruker Maldi-Tof automated ID System MME1 Maldi-Tof analyser MGB24 Mycology Identification	H



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	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
Faeces	Detection of Clostridium difficile toxin	Use of the Cepheid GeneXpert, RT PCR MPS4 and procedures:  MGB1 Detection of Clostridium difficile and its toxins in faeces	H
MRSA nasal swabs, Blood cultures	Detection of MRSA	MGB2 MRSA/MSSA screening MGB10 Blood cultures, bone marrow and transfusion packs	H, M
Respiratory fluids, Sputum	Detection of TB	MGB12 Examination of specimens for Acid Fast bacilli	H
Faeces	Detection of Helicobacter pylori Antigen	– Investigation of H. pylori. SOP VSB18 - DS2 analyser	H
	<u>Virology examination activities for the purpose of clinical diagnosis</u>	Use of the Cepheid GeneXpert, RT PCR MPS4 and procedures:	
CSF	Detection of Enterovirus	MPS7 PCR detection of viruses from CSF	H
Serum/EDTA Plasma	HCV RNA quantification	MPS11 Hepatitis C Viral Load and Positive monitoring	H
Respiratory Fluids, Nose, Throat and Nasopharyngeal Swabs	Detection of Influenza A & B + RSV	MPS13 Respiratory virus detection by PCR	H
Faeces, Vomit	Detection of Norovirus	MPS8 Investigation of viral gastroenteritis and diarrhoea by PCR	H
Whole Blood	Factor II and Factor V Mutation genotyping	MPS10 - Factor II and Factor V genotyping	H
Faeces	Detection of Rotavirus / Adenovirus	Lateral flow Biorapid (EIA) card test SOP MGB13 – Examination of Enteric samples	H



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Urine	<u>Virology examination activities for the purpose of clinical diagnosis (cont'd)</u>  Urinary antigen detection of Legionella pneumophila and Streptococcus pneumoniae	In-house documented methods incorporating manufacturers' instructions as required  Lateral flow – BINAX NOW card test. SOP VSB 9 – Urinary antigen tests	H
CSF	Viral PCR detection in CSF	EuroClone DuplicaPrep and Cepheid Smartcycler RT PCR. MPS6 DuplicaPrep MPS5 SmartCycler and  Launch Fast Track Diagnostics Viral Meningitis panel MP7 PCR detection of viruses from CSF  Hologic Gen-Probe Panther system MPS3 Panther system for use with Hologic assays:	H
Genital, Oral or Skin	Detection of Herpes Simplex virus	MPS1 NAATs testing for sexually transmitted infections	H
EDTA Plasma	HIV RNA quantification	Aptima HIV Viral Load TMA NAATs assay. MPS12 HIV Viral Load Testing	H
Genital Swab, Urine (GenProbe only)	Detection of Neisseria Gonorrhoeae and Chlamydia	Aptima Combo 2 NAAT + Aptima GC confirmation NAAT MPS1 NAATs testing for sexually transmitted infections	H
Serum, EDTA Plasma	Monospot (Paul Bunnell) Test	Manual Test, Latex agglutination VSB13 EBV serology	H
Nasopharyngeal Aspirate/ Swab	Respiratory Syncytial Virus	Binax Now, Lateral Flow antigen test VSB10 - Investigation of RSV in respiratory samples	H



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Serum	<u>Virology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented methods incorporating manufacturers' instructions as required	
		Documented in-house methods to meet the requirements of the Infectious Diseases in Pregnancy (IDPS) screening programme, as defined in the as defined in the July 2018 IDPS screening programme: laboratory QA evidence requirements (assays marked *)	
	Quantification of:	Beckman DXi, Chemiluminescence Immunoassay VSB20 Antenatal infection screening VBS30 Beckman Coulter Dxl and	
	HIV 1/2 Antigen/Antibody*	VSB7 Serological investigation of HIV	H
	Rubella IgG Antibody screen Rubella IgM Antibody	VSB12 Rubella serology	H
	CMV (Cytomegalovirus) IgG Antibody, CMV IgM Antibody	VSB11 CMV serology	H
	HBsAg Screen Anti-HBs Hepatitis B core antibody	VSB8 Investigation of Hepatitis B	H
	HEPA A (Total Antibody)	VSB3 Investigation of Hepatitis A	H
	Hepatitis A IgM Antibody	VSB11 Investigation of Hepatitis A	H
	Hepatitis C Antibody*	VSB2 Investigation of Hepatitis C	H
	Treponema Pallidum IgM/IgG screen*	Beckman AU5800, Immunoturbidimetric assay VSB19 Syphilis (Treponema pallidum) serology VSB20 Antenatal infection screening VBS36 AU5800	H



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	<u>Virology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
Serum (cont'd)	Confirmation of results from Beckman Dxl and e411 assays:	Determine Immunocard, Manual Immunocard test:	
	Treponema Pallidum Antibody*	VSBS19 Syphilis (Treponema pallidum) serology	H
Serum	HIV (HIV 1/2 Ag/Ab assay)*	VSBS7 Serological investigation of HIV	H, M
	Detection of:	Biomerieux, Vidas, Immunoassay (ELFA) VSBS21 Vidas analyser and	
Serum	HBsAg confirmation test	VSBS8 Investigation of Hepatitis B	H
	HIV 1/2 Ag/Ab assay (confirmation of Beckman Dxl results)	VSBS7 HIV serology	H
	B.burgdorferi IgG Antibody B.burgdorferi IgM Antibody	VSBS6 Investigation of Lyme Disease	H
	CMV IgG Antibody, CMV IgM Antibody	VSBS11 CMV Serology	H
	EBV Serology (VCA IgM, VCA IgG, EBNA IgG)	VSBS13 EBV serology SOP	H
	Hepatitis B core antibody	VSBS8 Investigation of Hepatitis B	H
	Hepatitis C Antibody	VSBS2 Investigation of Hepatitis C	H
	Toxoplasma IgG and IgM	VBS5 Toxoplasma IgM and IgG	H



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Serum (cont'd)	<u>Virology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
	Detection of:	NovaTek Novalisa, DS2, ELISA VSB18 DS2 analyser	
	Helicobacter pylori IgG	VSBI Investigation of H. pylori	H
	Measels virus IgG	VSBI4 Measles virus serology	H
	Parvovirus Serology IgM Parvovirus Serology IgG	VSBI5 Parvovirus serology	H
Serum	Varicella Zoster (VZ) virus IgG	VSBI6Varicella Zoster virus serology	H
	Detection of HIV 1/2 antigen and antibody	Roche Cobas e411 BVS68 Chemiluminescence immunoassay	H
Serum	Treponema Pallidum IgM/IgG screen	BVS68 Chemiluminescence immunoassay	H
Serum from clotted blood sample	Detection of SARS-CoV-2 Antibody (including IgG) Target: Nucleocapsid antigen antibodies	VSBI26 Elecsys Anti-SARS-CoV-2 electrochemiluminescent immunoassay (ECLIA)	H
Serum	Detection of:		
	Mycoplasma pneumoniae IgM	Manual, Serodia Gelatin agglutination test SOP VSB4 – Investigation of Mycoplasma pneumoniae	H
	Mycoplasma pneumoniae IgM (confirmation)	Manual, Meridian Lateral Flow immunoassay SOP VSB4 – Investigation of Mycoplasma pneumoniae	H



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Nasopharyngeal, oropharyngeal swabs in VTM	<u>Virology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented methods incorporating manufacturers' instructions as required	
	Detection of SARS-CoV-2 RNA Targets: E gene, N gene and ORF1ab gene sequences	NHS testing (marked *) and Private testing incorporating DHSC requirements for private providers of Covid-19 testing, to include: • General Population Testing • (marked #)  # ThermoFisher MPV2 extraction kit.  KingFisher Flex extraction platforms.  Bosphore 2019-nCoV assay using QS5 analysers  SOP: MPS20	H
	Detection of SARS-CoV-2 RNA Targets: E gene and N2 gene sequences	* Xpert Xpress SARS-CoV-2 PCR assay with Cepheid GeneXpert PCR platform  SOP: MPS33	H
	Detection of SARS-CoV-2 RNA Targets: N gene (2 regions)	* VitaPCR™ SARS-CoV-2-Assay performed on the VitaPCR™ instrument  SOP: MPS29	H, Y, M
	Detection of SARS-CoV-2 RNA Targets: ORF1ab 2 undifferentiated regions	* Aptima SARS CoV-2 TMA assay for Hologic Panther platform  SOP: CVS2	H



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HUMAN TISSUE	<u>Histopathology examination activities for the purpose of clinical diagnosis</u>	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
Formalin fixed tissues		Macroanalysis and dissection Manual method using: PDR4 BMS dissection and MLA duties PDR16 Specimen Dissection YDH PDR50 Pathologist Specimen Dissection  Decalcification Manual method using: PGM10: Decalcification  Tissue Processing Automated method using: Leica Peloris, Leica ASP300, Leica ASP300S and PGM20 Tissue processing	M, Y
Formalin fixed tissues		Embedding Manual method using: Tissue-Tek 5 embedder and PME3 Embedding  Microtomy Manual method using: PME2 Microtomy and Leica 2235 Leica 2245, Shandon HM340E	M Y Y
Fresh tissue Frozen tissue	Intra-operative diagnosis	Rapid frozen section Cryotomy and manual Haematoxylin & Eosin (H&E) staining method using: PSM34 Manual H&E and Bright cryostat OFT5000	M, Y



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HUMAN TISSUE (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
Formalin fixed, paraffin embedded (FFPE) tissue	Basophilic & eosinophilic tissue structures	Routine Haematoxylin & Eosin (H&E) staining and coverslipping Automated method using: Prisma stainer and film coverslipper PSM1 H&E staining Manual method using PSM34 H&E staining	M, Y
FFPE tissue	Detection of the following:	Special staining Manual methods using:	
	Alcian Blue/Pas with diastase Digestion Acid Mucins	PSM30 Alcian Blue	M, Y
	Acid and sulphated mucins	PSM6 Alcian Blue	M, Y
	Amyloid	PSM31 Congo Red	M, Y
	Bile Pigments	PSM32 Fouchet	M, Y
	Differentiating between hematopoietic cells	PSM9 Giemsa	M, Y
	Helicobacter pylori	PSM10 Modified Giemsa	M, Y
	Gram positive and gram negative organisms	PSM11 Gram	M, Y
	Basement membranes	PSM33 Jones Methenamine Silver	M, Y
	Fungal organisms	PSM12 Grocott Hexamine-silver	M, Y
	Fibrin	PSM13 Martius Soluble Blue (MSB)	M, Y
	5HT in melanin and lipofuscins	PSM14 Masson-Fontana	M, Y
	Collagen and smooth muscle	PSM15 Masson Trichrome	M, Y



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HUMAN TISSUE (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Special staining Manual methods using:	
	Elastic fibres & collagen	PSM17 Miller's Elastic Van Gieson	M, Y
	Hepatitis B surface antigen	PSM18 Shikata's Orcein	M, Y
	Liberated aldehydes	PSM30 Periodic acid Schiff/diastase +/- Digestion	M, Y
	Haemosiderin	PSM20 Perls' Prussian Blue	M, Y
	Reticulin fibres	PSM21 Reticulin, Gordon and Sweet's modification	M, Y
	Mast cell granules	PSM27 Toluidine Blue Metachromatic	M, Y
	Collagen and fibrosis	PSM25 Haematoxylin Van Gieson (HVG)	M, Y
	Acid Fast Bacilli	PSM29 Ziehl-Neelson	M, Y



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HUMAN TISSUE (cont'd)	<p><u>Histopathology examination activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Detection of the following:</p> <p>Anaplastic lymphoma kinase (Human p80 protein)</p> <p>Mantle zone B lymphocytes &amp; interfollicular T lymphocytes and other rare tumour types</p> <p>Germinal centre B lymphocytes</p> <p>Cell membrane glycoproteins expressed on healthy epithelia and in various carcinomas</p> <p>B cells, plasma cells</p> <p>Basal cells, filamentous keratins form glandular to stratified squamous, prostate adenocarcinoma</p> <p>Cancer antigen 125</p> <p>Lymphoma panel</p> <p>Smooth muscle cells</p> <p>Calcium binding protein structurally related to S100 and inhibin</p> <p>Epithelial</p> <p>Colonic transcription factor</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>Immunohistochemistry Automated methods using: PIC1 using Leica Bondmax III staining machines</p> <p>Alk1</p> <p>Bcl2</p> <p>Bcl6</p> <p>Ber-EP4</p> <p>BOB-1</p> <p>34βE12</p> <p>CA125</p> <p>C-Myc</p> <p>Calponin</p> <p>Calretinin</p> <p>CAM 5.2</p> <p>CDX2</p>	<p>M</p> <p>M, Y</p> <p>M, Y</p> <p>M, Y</p> <p>M</p> <p>M, Y</p> <p>Y</p> <p>M, Y</p> <p>M</p> <p>M, Y</p> <p>M, Y</p> <p>M, Y</p>



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HUMAN TISSUE (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
	T lymphocytes; helper/inducer T lymphocytes	CD3	M, Y
	T cell	CD5	M, Y
	T cell	CD7	M
	T cell	CD8	M
	Normal, early progenitor lymphoid cells; B lymphocytes in germinal centres	CD10	M, Y
	Hodgkin's & Reed-Sternberg cells	CD15	M, Y
	B lymphocytes	CD20cy	M, Y
	Follicular dendritic cells	CD21	M
	Key molecule for B cell activation and growth	CD23	M, Y
	Activated T lymphocytes; NK cells	CD25	M
	Hodgkin's & Reed-Sternberg cells	CD30	M, Y
	Endothelial cells; plasma cells; activated B & T lymphocytes	CD31	M, Y
	Haemopoietic precursor cells; endothelial cells; fibroblasts; other cell types in various solid tumours	CD34	M, Y
	Multifunctional enzyme, identify plasma cells and plasmablastic differentiation	CD38	M, Y



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HUMAN TISSUE (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
	T lymphocytes; myeloid lineage cells	CD43	M
	T & B lymphocytes	CD45	M, Y
	Peripheral nerves; NK cells; neuroendocrine differentiation	CD56	M, Y
	Macrophages; monocytes; granulocytes	CD68	M, Y
	Normal & neoplastic B lymphocytes	CD79a	M, Y
	Stem cell factor receptor, proto-oncogene activated in GIST tumors	CD117	M, Y
	Heparan sulfate proteoglycan, syndecan-1 in the late stage of B cell differentiation	CD138	M, Y
	Carcino-embryonic antigen (Adenocarcinomas, epithelial cells of the glandular lumen)	CEA	M, Y
	Chromogranin A (neuroendocrine cells and tumours)	Chromogranin A	M, Y
	Squamous epithelium	CK5	M,
	Simple, glandular & transitional epithelia	CK7	M, Y
	Epithelial	CK8/18	M, Y
	Epithelia	CK19	Y



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HUMAN TISSUE (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
	GI epithelia	CK20	M, Y
	Cytomegalovirus viral inclusions	CMV	M
	Mantle cell lymphoma	Cyclin D1	M, Y
	Smooth & striated muscle cells	Desmin	M, Y
	Interstitial cells of Cajal in GI tract, GIST	DOG-1	M
	Neural cell adhesion	E-Cadherin	M, Y
	Epstein Barr virus	EBER	M
	Epithelial membrane antigen (Glandular & ductal epithelia, perineurium; other cell types in various tumours)	EMA	M, Y
	Cellular estrogen receptor expression	ER	M, Y
	Dendritic cells.	Fascin	M
	Thyroid tumour subtyping	Galactin 3	M
	Primary breast cancer marker	GATA-3	M
	Metastatic Breast Cancer	GCDFP-15	M
	Glial fibrillary acidic protein (Neural cells)	GFAP	M, Y



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

**Southwest Pathology Services LLP**  
**Issue No: 007    Issue date: 09 January 2024**

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUE (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
	Human Chorionic Gonadotropin (Trophoblastic elements, e.g. in germ cell tumours)	HCG	M, Y
	Human melanoma black 45 antigen (Activated melanocytes; melanocytic tumours)	HMB45	M, Y
	Sertoli cells (diffuse and strong), granulosa cells, prostate, brain, adrenal	Inhibin	M, Y
	Demonstrates proliferating cells	Ki-67	M, Y
	Breast cancer	Mammoglobin	M, Y
	Melan A (MART-1) differentiation antigen (Normal, activated & neoplastic melanocytes)	Melan A	M, Y
	MLH-1 mismatch repair protein	MLH1	M
	Cytokeratins 5, 6, 8, 17, 19 (All epithelia)	MNF116	M, Y
	Myeloperoxidase in Neutrophils, eosinophils, monocytes	MPO	M
	MSH-2 mismatch repair protein	MSH2	M



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HUMAN TISSUE (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis</u> (cont'd)  MSH6 mismatch repair protein in colorectal carcinomas  Multiple myeloma oncogene-1  Enolase gamma subunit (neuronal & neuroendocrine cells)  Seminoma  Pluripotent germ cell tumours  Pre-B cells  Ovarian serous carcinoma, clear cell renal cell carcinoma, papillary thyroid carcinoma  Placental Alkaline Phosphatase in germ cell tumours, particularly seminomas; also breast, lung, ovarian carcinomas  Pulmonary squamous cell carcinoma marker  Cellular progesterone receptor expression  PMS2 mismatch repair protein in colorectal carcinomas  Prostate specific antigen  Prostate secretory and ductal epithelium	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)  MSH6  MUM-1p  NSE  Oct-02  OCT 3/ 4  PAX-5  PAX-8  PLAP  P40  PR  PMS2  PSA  PSMA	M  M, Y  M, Y  M  M, Y  M  M, Y  Y  M, Y  M  M, Y  M, Y



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HUMAN TISSUE (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
	p16INK4a oncoprotein (Normal, activated and neoplastic melanocytes)	p16	M, Y
	Neoplastic cells in epithelium	p53	M, Y
	Squamous epithelium	p63	M, Y
	Normal and neoplastic melanocytes; macrophages; adipocytes; nerve fibres; many tumour types	S100	M, Y
	Smooth muscle, myoepithelial and other contractile cells	SMAActin	M, Y
	Gastrin	Gastrin	M
	Programmed cell death protein 1	PD1	M
	Prostatic tumor suppressor gene	NKX3.1	M
	Terminal Deoxynucleotidyl Transferase	Tdt	M
	CK HMW+p63+AMACR (RM)	PIN cocktail	M,Y
	Podoplanin antibody	D2-40	Y
	Helicobacter Pylori	H pylori	M
Slides prepared in-house from sample types listed above	Morphological assessment and interpretation/diagnosis	Microscopy (qualitative analysis) In-house procedures: PDR50	M, Y



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HUMAN TISSUE (cont'd)	<u>Diagnostic cytology examination activities for the purpose of clinical diagnosis</u>	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
Body fluids: Cerebrospinal fluid (CSF) Urine General body fluids Brushings (Bronchial, gastric, oesophageal, duodenal etc.) Fine Needle Aspirations Respiratory Samples (Broncho alveolar lavage (BAL), Brushings, washings and sputum)		Preparation/centrifugation In-house procedures: CEQ9 using stainer/coverslipper CEQ1 using Microscope CEQ5 using Downflow unit CPR31 Body fluids CPR32 Urine CPR33 Bronchial samples and sputum CPR34 FNA CPR35 Joint fluids CPR36 CSF CPR38 Summary NG Prep CPR76 Immunology and Cell Block requests	H
		Papanicolaou and MGG staining Automated/manual using in-house procedures: CEQ4 using Cytospin 4, CEQ10 T2000 Tissue Processor	H
Slides prepared in-house from sample types listed above	Morphological assessment and interpretation/diagnosis	Microscopy (qualitative analysis) In-house procedures: CPR35 CPR100	H



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Blood	<u>Blood Transfusion examination activities for the purposes of clinical diagnosis</u> (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below	
	Blood Grouping (ABO and RhD type)	TXS10, TXS11, TXS12, TXS27, TXS63 and TXS64 using Ortho Vision card/column agglutination and tube technique	M, Y
	Red Cell Antibody Screen	TXS10, TXS63 and TXS64 using Ortho Vision card/column agglutination	M, Y
	Rhesus and K phenotyping Rh – C, D, E, c, e, Kell - K	TXS5, TXS63 and TXS64 using Ortho Vision card/column agglutination	M, Y
	Phenotyping of red cell Antigens: Jka/Jkb, M/N, S/s and Fya/Fyb	TXS6, TXS63 and TXS64 using Ortho Vision card/column agglutination against Ortho Sera	M, Y
	Detection of Antibodies: Rhesus blood group Antibodies: anti-C, anti-c, anti-D, anti-E, anti-e Kell system blood group antibodies: anti-K, anti-k, anti-Kpa Kidd blood group antibodies: anti-Jka, anti-Jkb MNS blood group antibodies: anti-M, anti-N, anti-S, anti-s Duffy blood group antibodies: anti-Fya, anti-Fyb Lewis blood group antibodies: anti-Lea, anti-Leb	TXS10, TXS12, TXS15, TXS63 and TXS64 using Ortho Vision Card/column agglutination	M, Y
	Direct Antiglobulin Test	TXS12, TXS26, TXS63 and TXS64 using Ortho Vision card/column agglutination	M, Y
	Monospecific Coombs Test (IgG, C3d/C3b)	TXS12, TXS45, TXS63 and TXS64 using Ortho Vision card/column agglutination	M, Y



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Blood (cont'd)	<p><u>Blood Transfusion examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Serological cross match: Serological compatibility Testing between donor red cell Antigens and patient plasma antibody</p> <p>Detection and Estimation of Foetal Maternal Haemorrhage through Quantification of foetal Hb in Maternal blood</p> <p>Antibody titration</p> <ul style="list-style-type: none"><li>• Rhesus: anti-Cw, anti-C, anti-E, anti-e,</li><li>• Kell system: anti-K, anti-k, anti-Kpa,</li><li>• Kidd: anti-Jka, anti-Jkb,</li><li>• Duffy: anti-Fya, anti-Fyb</li></ul>	<p>In house documented procedures based on equipment manuals and standard methods as specified below</p> <p>TXS38, TXS63 and TXS64 using Ortho Vision card/column agglutination</p> <p>TXS16 using Kleihauer test - acid elution followed by microscopy</p> <p>TXS8 - Titration techniques by serial dilution of plasma using Ortho Vision card/column agglutination</p>	<p>M, Y</p> <p>M, Y</p> <p>M, Y</p>



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HUMAN BODY FLUIDS	<u>Andrological examination activities for the purposes of clinical diagnosis</u>		
Semen	<u>Post vasectomy:</u>	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 APV1	H
Semen	<u>Fertility testing:</u>	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method and documented in-house procedures SOPs ASB11, ASB12, ASB15, ASB20	H
	Sperm morphology excluding TZI scoring	Stained slides (DiffQuik) microscopy (Bright field)	
	Sperm concentration	Improved Neubauer counting chambers and Microscopy (Phase contrast)	
	Sperm motility	Microscopy (Phase contrast)	
	Sperm vitality	Stained slide (Eosin dye exclusion test) microscopy (Phase contrast)	
END			