


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>9090</b> Accredited to ISO 15189:2022	<b>NHS Ayrshire and Arran</b>	
	<b>Issue No: 009 Issue date: 30 May 2025</b>	
	<b>Area Laboratories</b> Crosshouse University Hospital Kilmarnock KA2 0BE	<b>Contact: Lisa Hunter</b> <b>Tel: +44 (0) 1563 825140</b> <b>E-Mail: Lisa.Hunter2@aapct.scot.nhs.uk</b> <b>Website: www.nhsaaa.net</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

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

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Area Laboratories Crosshouse University Hospital Kilmarnock KA2 0BE	<b>Local contact:</b> Lisa Hunter  Lisa.Hunter2@aapct.scot.nhs.uk  Margaret McGovern Margaret.McGovern@aapct.scot.nhs.uk  Jane MacMillan Jane.MacMillan2@aapct.scot.nhs.uk  Stephen Mallon Stephen.Mallon@aapct.scot.nhs.uk	Bacteriology Serology  Haematology Blood Transfusion Blood and blood product issue Immunology  Histology Immunohistochemistry Cytology (Non-Gynaecological) Andrology  Clinical Biochemistry
<b>Address</b> Area Laboratories University Hospital Ayr KA6 6DX	<b>Local contact</b> Margaret McGovern  Stephen Mallon	Haematology Blood Transfusion Blood and blood product issue  Clinical Biochemistry

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

Location details	Activity	Location code
Theatre Complex- Crosshouse Issue fridge - Main Lab	As above Blood Fridges	H
Theatres- Ayr Hospital Issue fridge - Main Lab	As above Blood Fridge	J



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Location details	Activity	Location code
Arran War Memorial Hospital – In patient ward Issue Fridge Lamlash Isle of Arran KA27 8LF	Blood fridge	C
Ayrshire Maternity Unit Crosshouse Hospital See above address	Blood Fridge	F
Ailsa Hospital Dalmellington Rd Ayr KA6 6AB	Blood Fridge	G



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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
<p>HUMAN TISSUES AND FLUIDS</p> <p>Swabs from wounds, genital sites, eyes, nose, throat, ears, respiratory and CSF, CAPD, faeces, fluids, bone marrow, tissue, urine, tips</p>	<p><u>Microbiological examination activities for the purpose of clinical diagnosis</u></p> <p><u>Bacteriology</u></p> <p>General isolation and characterisation of micro-organisms of clinical significance</p>	<p>In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)</p> <p>Manual culture and microscopy as relevant using SOPs</p> <p>Bile (LPM BIL001) CAPD (LPM CAP001) CSF (LPM CSF002) Ear (LPM EAR001) Eye (LPM EYE001) Faeces (LPM SAL001, LPM SHI001, LPM CAM001, LPM FVY001, LPM ECL002, LPM FFP001) Fluids (LPM FLU001) Genital (LPM HCX001) Legionella (LPM LEG001) Mouth (LPM MOU001) MRSA (LPM MRS001) Nasal (LPM NAW001) Prosthetic Joint Infections (LPM PJI001) Respiratory (LPM SPU002) Throat (LPM THR002) Tips (LPM TIP001) Tissue and bone (LPM TIS002) Urine (LPM URI003) Wound (LPM WOU001) Abscesses (LPM ABS001)</p>	<p>A</p>



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)	
Blood and sterile fluids	Detection of microbial growth	Detection of growth in cultures of blood and sterile fluids using automated system Bactec FX (LPM BLC003)	A
Cultures isolated in-house from all samples listed above	Identification of microorganisms of clinical significance	Automated method using bioMerieux Vitek 2XL instrument and LPM VIT002  Maldi-tof method using Brucker MS and LPM MAL005	A
Bacterial cultures isolated in-house from all samples listed above	Antimicrobial susceptibility testing of clinically significant bacteria	Antimicrobial susceptibility testing- Automated method using bioMerieux Vitek 2XL instrument (LPM VIT002) and Manual disc method (LPM SEN002) – both EUCAST based	A
Sputum and lower respiratory tract specimens, tissues, fluids	Isolation and presumptive identification of Mycobacterium species	Becton Dickinson MGIT automated continuous growth system followed by Ziehl Neelsen staining and microscopy using SOP LPM MIG001	A
Faeces	Detection of Cryptosporidium oocysts	Automated staining using modified Kinyoun method and microscopy, (LMP CRY001)	A
Faeces	Detection of Clostridium difficile GDH antigen and toxins A & B	Screening for GDH using PRO-LAB PRO-FLOW (LPM GDH001) and C diff toxins using mini VIDAS (LPM VTD001)	A
Skin, nail, hair	Detection and general isolation and characterisation of fungi and yeasts of clinical significance	Direct microscopy of KOH digested samples and Manual culture on non-chromogenic selective media. (LPM MYC001)	A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Serological examination activities for the purpose of clinical diagnosis</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)	
Blood (serum)	Microbial serology for:  HAVABM HBsAG Anti HB Core HBV Conf Anti HBS HCV HIV HAVG Rubella Syphilis	Architect CMIA analyser (LPM ARC001) Mini Vidas EIA analyser HAVABM (LPM HAM001) HBsAG (LPM HBV001) Anti HB Core (LPM HCO001 ) HBV Conf (LPM HBC001) Anti HBS (LPM HBS001) HCV (LPM HCV001) HIV (LPM HIV001) HAVG (LPM HPA001) RUBG (LPM RUB001) Syphilis (LPM SYP001)	A
	Varicella Zoster Toxoplasma Measles Mumps Lyme Disease Hepatitis C antibody	Using Mini Vidas EIA analyser VZ (LPM VAR001) Toxoplasma (LPM TOV001) Measles (LPM MEA001) Mumps (LPM MUM001) Lyme ( LPM LYG001) Hep C ab (LPM HVI001)	A
Urine	Legionella pneumophila serogroup 1 antigen	Legionella UA using BINAX NOW (LPM LUR001)	A
Urine / CSF	Streptococcus pneumoniae antigen	S Pneumo UA using BINAX NOW (LPM UPN001)	A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Molecular examination activities for the purpose of clinical diagnosis</u>	In-house documented procedures	
Nose and Throat swabs	<u>Resp-4-Plex assay (Influenza A, Influenza B, RSV, SARS CoV-2)</u>	Abbott Alinity-M System Real time PCR extraction and amplification using LPM ALI001 & LPM RES001	A
Genital, Endocervical, Vaginal, Rectal Swabs and Urine	<u>Detection of Chlamydia trachomatis/Neisseria gonorrhoeae CT/NG</u>	Abbott Alinity-M System Real time PCR extraction and amplification using LPM ALI001 & LPM STI001	A
Nose and Throat swabs	<u>SARS-CoV-2/Flu/RSV plus (Influenza A, Influenza B, RSV, SARS CoV-2)</u>	PCR using Cepheid GeneXpert and RES002	A
Genital, Endocervical, Vaginal, Rectal Swabs and Urine	<u>Detection of Chlamydia trachomatis/Neisseria gonorrhoeae CT/NG</u>	PCR using Cepheid GeneXpert and STI 002	A



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HUMAN BODY FLUIDS	<u>Haematological examination activities for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturer's instructions for:	
EDTA Whole Blood	Quantitative determination of:  Hb WBC Platelets RBC HCT MCV MCH MCHC Neutrophils Lymphocytes Monocytes Basophils Nucleated RBC Reticulocyte count	Sysmex XN 9100 A and XN3100 B:  Using Flow Cytometry Method: LPH HAE001	A+B
EDTA Whole Blood			
Whole Blood	APTT PT Fibrinogen D Dimer Factor VIII Factor IX INR Protamine Sulphate correction Apixiban Edoxiban Anti Xa	Sysmex CS-2500 using Turbidimetric technology: LPH COA027 LPH COA027 LPH COA027 LPH COA022 LPH COA019 LPH COA019 LPH COA027 LPH COA023 LPH COA031 LPH COA031 LPH COA028	A+B A+B A+B A+B A A A+B A+B A+B A A
EDTA Whole Blood	Automated ESR	Starrsed Interliner ESR analyser LPH HAE009  Starrsed ST Inversa ESR analyser LPH HAE047	A  B



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination activities for the purposes of clinical diagnosis:</u> (cont'd)	Documented in house methods and manufacturer's instructions for:	
EDTA Whole Blood	<u>Blood film assessment for detection of abnormal cell type, morphology, numbers and white cell differential</u>	Staining using Sysmex SP-50 automated stainer using LPH HAE040	A+B
EDTA Whole Blood	Quantitative determination of:  Blood cells	Manual blood film reporting. Using microscopy:  LPH HAE008	A+B
Bone Marrow	Bone Marrow cells	Staining using May Grunwald and Giemsa stains and microscopy:  LPH HAE022/023	A+B
EDTA Whole Blood	Qualitative determination of:  Malaria parasites P.falciparum P.vivax P.ovale P.malariae	Carestart rapid test immunochromatographic assay:  LPH HAE007	A+B
EDTA Whole Blood	Haemoglobinopathy Screening for: <ul style="list-style-type: none"> <li>HbA</li> <li>HbA<sub>2</sub></li> <li>HbAS</li> <li>HbAC,</li> <li>HbAD,</li> <li>HbAE,</li> <li>HbF</li> <li>Alpha Thalassaemia</li> <li>beta Thalassaemia</li> </ul>	Manufacturers analyser using HPLC methodology. Using Tosoh G8-Sickle Cell and Thalassaemia LPH SPH023	A





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HUMAN BODY FLUID (cont'd)	<u>Haematological examination activities for the purposes of clinical diagnosis (cont'd):</u>	Documented in house methods:	
Blood	Sickle cell screen- HbS	Sickledex kit (STRECK) using turbidometric technology:  LPH SPH004	A
Blood	Detection of infectious mononucleosis Heterophile antibody	Clearview I.M. II infectious Mononucleosis screen kit using agglutination:  LPH SPH002	A+B
	<u>Immunological examination activities for the purposes of clinical diagnosis</u>	Documented in house methods and manufacturer's instructions for:	
	Qualitative determination of:	Indirect fluorescence / Microscopy using Quanta-Lyser 2 IFA Automated System, Nova View 2.0 Automated Fluorescent Microscope, Nova View Crithidia Module and Fluorescent LED Microscope with Camera:	
Blood	Anti-nuclear Antibodies	LPI IMM003	A
Blood	Liver autoantibodies	LPI IMM008	A
Blood	Smooth Muscle antibodies	LPI IMM008	A



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examination activities for the purposes of clinical diagnosis (cont'd):</u>	Documented in house methods and manufacturer's instructions for:	
Blood	Specific IgE to the following: Grass Cat Dog House dust mite Egg Milk Aspergillus fumigatus Alternaria alternate Horse dander Cow dander Guinea pig epithelium Rabbit epithelium Hamster epithelium Fish (cod) Wheat Peanut Soya bean Tomato	Specific IgE fluoroimmunoassay using ImmunoCAP system on Phadia 250  LPI IMM007	A
Blood	Rheumatoid factor Anti CCP	EliA test FEIA (Fluorescence enzyme immunoassay) using ImmunoCAP system on Phadia 250  LPI IMM011	A
EDTA whole blood	Quantification of CD4	Flow cytometry using FACS PRESTO	A



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations to assist in clinical investigations</u>	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
EDTA Whole Blood	Blood Group by detection and identification of antigens:  A Rh (D) Positive AB Rh (D) Positive B Rh (D) Positive A Rh (D) Negative AB Rh (D) Negative B Rh (D) Negative O Rh (D) positive O Rh (D) negative	Column technology, Biorad IH500 analyser using LPH Manual system, Biorad Gel Cards Agglutination and photometric LPH BTS098 LPH BTS072 LPH BTS070	A+B
EDTA Whole Blood	Antibody Screen by detection of antibodies to:  D, E, C, c, e, C <sup>w</sup> K, k, Kp <sup>a</sup> , Kp <sup>b</sup> , Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup> Le <sup>a</sup> , Le <sup>b</sup> S, s, M, N Lu <sup>a</sup> , Lu <sup>b</sup>  Identification of antibodies: D, E, C, c, e, C <sup>w</sup> K, k, Kp <sup>a</sup> , Kp <sup>b</sup> , Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup> Le <sup>a</sup> , Le <sup>b</sup> S, s, M, N Lu <sup>a</sup> , Lu <sup>b</sup>	LPH BTS073 LPH BTS085	A+B
EDTA Plasma	Antibody Titration	LPH BTS018	A
EDTA Plasma	Compatibility testing of patient's plasma with donor cells	LPH BTS063 LPH BTS012	A+B



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations to assist in clinical investigations</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
EDTA Whole Packed Red Cell	Direct Antiglobulin Test (DAT)	LPH BTS016	A+B
EDTA Whole packed red cell	Red cell phenotyping to include:  D, E, C, c, e, K Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup> Le <sup>a</sup> , Le <sup>b</sup> S, s, M, N	Biorad Column Technology:  LPH BTS016	A+B
Blood	Estimation of Foetal cells in Maternal circulation	Acid Elution using Guest Medical kliehauer kits	A



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<p><b>HUMAN BODY TISSUE AND FLUIDS</b></p> <p>Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Supported by:</p> <p>Tissue Dissection: Manual methods using documented procedures LPP HIS084-181</p> <p>Cryotomy: Leica cryostat LPP HIS009 LMP HIS009</p> <p>Decalcification: Using LPP HIS019 LPP HIS199</p> <p>Tissue Processing: Using the Leica Peloris 3 LPP HIS186 Embedding: LPP HIS004 Using Leica Arcadia</p> <p>Section Cutting: LPP HIS005 Using Leica histocore, microtomes</p>	A



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE slides (Formalin fixed paraffin embedded) Sections from fresh frozen tissue	Identification of nuclei, cell cytoplasm and connective tissues in cells and tissues for the purposes of clinical diagnosis using Haematoxylin & Eosin.	Haematoxylin and Eosin staining- Manual and automated methods- Rapid H&E stain for frozen sections: LPP HIS006 LPP HIS054 Epredia Gemini AS, Leica Autostainer XL Sakura TTCoverslipper	A
FFPE slides (Formalin fixed paraffin embedded)	Special staining of histopathology examinations to assist in detection of clinical abnormalities:	Special staining In-house manual documented procedures based on manufacturers' manuals as relevant	A
	Acid and Neutral Mucopolysaccharides	Alcian Blue/PAS: LPP HIS035	
	Acid Mucopolysaccharides	Alcian Blue: LPP HIS 034	
	Amyloid	Congo Red : LPP HIS 038	
	Bacteria	Gram Hucker Conn: LPP HIS 048	
	Fungi	Grocott-Gomori Methenamine Silver: LPP HIS051	
	Haemosiderin	Perl's Prussian Blue: LPP HIS067	
	Glycogen/Neutral mucins/Fungi	Periodic Acid-Schiff (+/- Diastase): LPP HIS 068	



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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	Special staining of histopathology examinations to assist in detection of clinical abnormalities: (cont'd)	Special staining In-house manual documented procedures based on manufacturers' manuals as relevant:	
	Reticulin Fibres	Retic (Gordon & Sweet's): LPP HIS07	
	Connective tissue	Van Gieson: LPP HIS077	
	Acid fast bacilli	Ziehl Neelson: LPP HIS081	
	Mycobacterium Leprae	Wade-Fite: LPP HIS202	A
	Elastic Fibres	Miller's Elastic H&E: LPP HIS203	
FFPE slides (Formalin fixed paraffin embedded)	<u>Immunohistochemistry examination activities for detection of:</u>	Immunohistochemistry Microscopic examination supported by in-house documented procedures based on Ventana Benchmark Ultra machines: Using SOPs LPP-ICC002-017, LPP ICC020, LPP ICC028-030, LPP ICC037, LPP ICC040, LPP ICC043	
	Acidic and basic cytokeratins	AE1/AE3	
	Embryonic cells in normal tumours and germ cell tumours	a-1 Fetoprotein	
	Smooth muscle cells, myoepithelial cells	Actin, Smooth Muscle	



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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	<u>Immunohistochemistry examination activities for detection of</u> (cont'd):	Immunohistochemistry Microscopic examination supported by in-house documented procedures based on Ventana Benchmark Ultra machines: Using SOPs LPP-ICC002-017, LPP ICC020, LPP ICC028-030, LPP ICC037, LPP ICC040, LPP ICC043	
	Human amyloid P component	Amyloid P	
	Androgen Receptor positive cells	Androgen receptor	
	B Cells, Follicular lymphomas	Bcl-2	
	B Cells, lymphoma	Bcl-6 Protein	
	Beta-Catenin protein	B-CAT 14	
	H.pylori	Anti-Helocobacter pylori (SP48)	
	P40 protein	P40 (BC28)	
	NKX3.1 protein	NKX3.1 (EP356)	
	CD44 protein	CD 44 (SP37)	
	Insulinoma-associated protein 1	INSM1 (MRQ-70)	
	SOX-10 protein	SOX-10 (SP267)	
	Clear cell carcinoma	Carbonic Anhydrase IX	
	CA19-9	CA19-9	
	Ovarian epithelial malignancies, seminal vesicle malignancies, anaplastic lymphoma	CA-125	





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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	<u>Immunohistochemistry examination activities for detection of</u> (cont'd):	Immunohistochemistry Microscopic examination supported by in-house documented procedures based on Ventana Benchmark Ultra machines: Using SOPs LPP-ICC002-017, LPP ICC020, LPP ICC028-030, LPP ICC037, LPP ICC040, LPP ICC043	
	Parafollicular cells in thyroid and medullary thyroid carcinomas	Calcitonin	
	Smooth muscle cells, myoepithelial cells	Calponin	
	Mesotheliomas	Calretinin	
Frozen Section Slides	FITC identification of complement 2 in the skin	C3 (IF)	
	Langerhan Cells	CD1a	
	Mature B Cells, Follicular dendritic cells, CALLA	CD10 (CALLA)	
	Various targets	CD117 (c-kit)	
	Normal and neoplastic cells and plasmacytoid lymphomas	CD138	
	Granulocytes, Reed-Sternberg cells	CD15 (Leu-M1)	
	B Cell	CD20 (L26)	
	Mature B Cells, follicular dendritic cells	CD21	
	B Cells, T Cells	CD23	



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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	<u>Immunohistochemistry examination activities for detection of</u> (cont'd):	Immunohistochemistry Microscopic examination supported by in-house documented procedures based on Ventana Benchmark Ultra machines: Using SOPs LPP-ICC002-017, LPP ICC020, LPP ICC028-030, LPP ICC037, LPP ICC040, LPP ICC043	
	ALCL	CD246, ALK protein (Clone ALK1)	
	T Cells	CD31	
	Reed-Sternberg cells, plasma cells	CD30 (BerH2)	
	Endothelial cells	CD31	
	Endothelial cells	CD34 (Qbend 10)	
	Thymic cells, activated T Cells, Precursor and activated B Cells	CD38	
	T Cells, Helper and mature	CD4	
	T and B cell lymphoma	CD43 (MT1)	
	Leucocytes	CD45 (LCA)	
	Mature T cells, T cell lymphomas	CD5	
	Natural killer cells, neuroendocrine tissue	CD56 (N-CAM)	
	Platelets, megakaryocytes, macrophages, endothelial cells	CD57	



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	Monocytes, macrophages, neutrophils, histiocytic lymphomas	CD68 (KP1)	
	Macrophages, Mast cells, synovial cells, histiocytic lymphomas	CD68 (PG M1)	
	B Cells	CD7	
	T cells	CD79a	
	T cells	CD8	
	Intestinal epithelial cells, colorectal, adeno carcinomas	CDX2	
	CEA glycoproteins	CEA (mono)	
	Hepatocellular carcinoma	CEA (poly)	
	Neuroendocrine tissue	Chromogranin A	
	Basal cells, keratin, squamous, prostrate adenocarcinoma	Cytokeratin, HMW (34BE12)	
	Prostate gland	Cytokeratin, HMW +p63 cocktail (basal cell cocktail)	
	Tumour cells	Cyclin D1	



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	Pan cytokeratin	Cytokeratin, MNF116	
	Epithelial cells	Cytokeratin 14	
	Epithelial cells	Cytokeratin 19	
	Adenocarcinoma, columnar epithelial cells	Cytokeratin 20	
	Stratified squamous epithelium, basal cells, mesotheliomas	Cytokeratin 5/6	
	Epithelia	Cytokeratin 7	
	Epithelial cells	Cytokeratin 8/18	
	Lymphatic vessels	D2-40	
	Striated and smooth muscle cells	Desmin	
	Gastrointestinal stromal tumours	DOG-1	
	Epstein Barr encoded RNA expressing cells	EBER (ISH)	
	Duct epithelial cells	E- Cadherin	
	Epithelium	EMA	



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	Epithelial cells, adenocarcinomas	EP4	
	Nuclei of cells containing oestrogen	Oestrogen receptor	
	Von Willibrand factor	Factor VIII	
	Fibrohistocytic lesions	Factor XIIIa	
	Predictor of ER positive status, Urothelial carcinomas	GATA-3	
	Breast Carcinoma	GCDFP-15	
	Placental trophoblasts	hCG	
	Breast cells expressing HER-2	HER-2	
	Melanoma cells	HMB45	
Frozen Section Slides	FITC identification of IgA in skin	IgA (IF)	
Frozen Section Slides	IgG in skin	IgG (IF)	
Frozen Section Slides	IgM in skin	IgM (IF)	
	Sex chord stromal tumours	Inhibin	
	Kappa light chain mRNA	KAPPA (ISH)	



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	Proliferating cells	Ki67 (MIB-1)	
	Lambda light chain mRNA	LAMBDA (ISH)	
	Breast carcinoma and micrometastasis	Mammoglobin	
	Melanoma	MelanA	
	Mesothelial cells	Mesothelin	
	Epithelial cells	MOC31	
	Lympho-haemopoietic tumours	MUM 1	
	Myoepithelial cells	Myosin heavy chain	
	Lymphoid/myeloid differentiation	Myeloperoxidase	
	Rhabdomyoma/rhabdomyosarcoma	Myoglobin	
	Lung adenocarcinoma	Napsin A	
	Nerve/neuroendocrine tumours	NSE	
	Hepatocytes	OCH1E5	
	Germ cell/ seminomas	Oct-04	



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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	<u>Immunohistochemistry examination activities for detection of</u> (cont'd):	Immunohistochemistry Microscopic examination supported by in-house documented procedures based on Ventana Benchmark Ultra machines: Using SOPs LPP-ICC002-017, LPP ICC020, LPP ICC028-030, LPP ICC037, LPP ICC040, LPP ICC043	
	Cervical carcinoma	P16	
	Lobular carcinoma of the breast	P120 Catenin	
	Breast, Colon, Lung, Urothelial carcinoma	P53 (DO-7)	
	Hydatidiform mole	P57	
	Prostate basal cells, proliferative cells, glandular epithelium	P63	
	B cells	PAX-5	
	Follicular thyroid neoplasms, renal epithelial tumours, urothelial carcinomas, serous ovarian and endometroid carcinomas	PAX-8	
	Angioimmunoblastic lymphoma	PD-1	
	Neurones and neuroendocrine cells	PGP9.5	
	Germ cell tumours, seminomas	Plac Alk phosphatase	



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	Nuclei of cells containing progesterone	Progesterone	
	Prostatic glandular cells	Prostein	
	Prostate secretory and ductal epithelium	PSA	
	Prostate adenocarcinoma	Racemase (P504s)	
	Renal cell carcinomas	Renal cell carcinoma	
	Schwann cells, nerve processes, S100 positive neoplasms	S-100	
	Urothelial neoplasm	S-100p	
	Bladder carcinoma, muscularis propria	Smoothelin	
	Mantle cell lymphoma	SOX-11	
	Neuroendocrine cells	Synaptophysin	
	Lymphocytes, leukaemias, lymphomas	TdT	
	Mesothelioma	Thrombomodulin	
	Thyroglobulin containing cells	Thyroglobulin	





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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	<u>Immunohistochemistry examination activities for detection of</u> (cont'd):	Immunohistochemistry Microscopic examination supported by in-house documented procedures based on Ventana Benchmark Ultra machines: Using SOPs LPP-ICC002-017, LPP ICC020, LPP ICC028-030, LPP ICC037, LPP ICC040, LPP ICC043	
	TTF-1	TTF-1	
	Mesenchymal cells, epithelial cells, fallopian smooth muscle	Vimentin	
	Wilms Tumour	WT1	A
HUMAN BODY FLUIDS	<u>Diagnostic Cytopathology (Non-Gynaecological) examination activities for the purposes of clinical diagnosis</u>	Macroscopic and microscopic examination	
Fine needle aspirations (various sites) Serous effusions (pleural, ascetic, pericardial) Urine Cyst Fluids Peritoneal Washings Cerebrospinal Fluid	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities	Documented in-house procedures In conjunction with manufacturer's instructions for Shandon Cytospin, and Shandon Gemini Varistain: LPP CYT001-018 LPP CYT042 LPPCYT064 LPP CYT001 PAP Stain RAL 555 Rapid Diff Quick LPP CYT022	
Air dried prepared slides of above Wet fixed preps of above			



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HUMAN BODY FLUIDS (cont'd)	<u>Andrological examination activities for the purposes of clinical diagnosis</u>		
Semen	<u>Post vasectomy</u>  Detection of sperm Sperm concentration	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 documented in-house procedure LPP CYT033 by large volume chambers/ manual microscopy	A
Semen	<u>Fertility testing</u>	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method using documented in-house procedure CYT025-029	A
	Volume	Volume/weight	A
	pH	Colorimetric strips	A
	Sperm morphology excluding TZI scoring	Stained slides (Papanicolau) microscopy (Bright field)	A
	Sperm concentration	Microscopy (Phase contrast)	A
	Sperm motility	Microscopy (Phase contrast)	A



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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 :  Roche Cobas 8100 system and p501 (A+B) C702/e801 (A) C702/e602 (B)  LPB COB103 and LPB COB105  <b>Using Photometric methods:</b>	
Serum/plasma	Albumin	LPB COB017	A+B
Serum/plasma	Alkaline phosphatase	LPB COB009	A+B
Serum/plasma	Digoxin	LPB COB033	A
Serum/plasma	Direct Bilirubin	LPB COB008	A
Serum/plasma	Iron	LPB COB027	A
Serum/plasma/ CSF	Lactate	LPB COB032	A+B
Serum/plasma	Lithium	LPB COB046	A
Serum/plasma/urine	Magnesium	LPB COB025	A+B
Serum/plasma/urine	Phosphate	LPB COB019	A+B
Serum/plasma	Bilirubin	LPB COB007	A+B
Serum/plasma/ CSF/Urine	Total Protein	LPB COB016	A+B
Serum/plasma	GGT	LPB COB014	A
Serum/plasma	HDL cholesterol	LPB COB022	A+B
Serum/plasma	Triglyceride	LPB COB023	A+B



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u> (cont'd)	Documented in house methods and manufacturer's instructions for:  Roche Cobas 8100 system and p501 (A+B) C702/e801 (A) C702/e801 (B)  LPB COB103 and LPB COB105  <b>Using enzymatic/colorimetric methods:</b>	
Serum/plasma	Urate	LPB COB026  <b>Using Immunoassay methods</b>	A+B
Serum/plasma	Beta HCG CA-125 CA-19-9 Cortisol FSH LH Macroprolactin Oestradiol Progesterone Prolactin	LPB COB056 LPB COB044 LPB COB053 LPB COB058 LPB COB064 LPB COB063  LPB COB047 LPB COB057 LPB COB065	A A A A A A A A A A
EDTA plasma	PTH	LPB COB070	A
Serum/Plasma	Testosterone Troponin-T	LPB COB059 LPB COB042  <b>Using Electrochemiluminescence Immunoassay methods</b>	A A+B
Serum/Plasma	AFP CEA Free T3 Free T4 PSA TSH Folate Ferritin Vitamin B12	LPB COB082 LPB COB086 LPB COB091 LPB COB092 (A) LPB COB098 (A) LPB COB102 (A) LPB COB089 (A) LPB COB088 (A) LPB COB083 (A)	A A A A+B A+B A+B A+B A+B A+B



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u> (cont'd)	Documented in house methods and manufacturer's instructions for :	
Serum/plasma	Alpha-1-antitrypsin CRP  IgA IgG IgM	Roche Cobas 8100 system and p501 (A+B) C702/e801 (A) C702/e801 (B)  LPB COB103 and LPB COB105 LPB COB054 LPB COB024  LPB COB060 LPB COB060 LPB COB060	A A+B  A A A
Urine	Microalbumin	Roche Cobas 8100 system and p501 (A+B) C702/e801 (A) C702/e801 (B)  LPB COB103 and LPB COB105  <b>Using immunoturbidometric assay methods:</b>  LPB COB040	A



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis: (cont'd)</u>	Documented in house methods and manufacturer's instructions for :  Roche Cobas 8100 system and p501 (A+B) C702/e801 (A) C702/e801 (B)  LPB COB103 and LPB COB105  <b>Using enzymatic assay methods:</b>	
Serum/plasma	Ammonia	LPB COB049	A
Serum/plasma	Alanine aminotransferase Aspartate aminotransferase	LPB COB011 LPB COB010	A+B A+B
Serum/plasma/urine	Amylase	LPB COB015	A+B
Serum/plasma	Bicarbonate	LPB COB006	A+B
Serum/plasma	Cholesterol	LPB COB021	A+B
Serum/plasma	Alcohol	LPB COB031	A+B
Serum/plasma/CSF	Glucose	LPB COB020	A+B
Serum/plasma	Lactate Dehydrogenase	LPB COB013	A+B
Serum/Plasma	Salicylate	LPB COB029	A+B
Serum/plasma	Paracetamol	LPB COB030	A+B
Serum/plasma/urine	Calcium	LPB COB018	A+B



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Serum/plasma	Creatinine kinase	LPB COB012	A+B
Serum/plasma	Unsaturated Iron binding concentration	LPB COB028  <b>Using enzymatic immunoassay methods:</b>	A
Serum/plasma	Tobramycin	LPB COB052	A
Serum/plasma	Valproate	LPB COB038	A
Serum/plasma	Digoxin	LPB COB033  <b>Using Jaffe kinetic colorimetric methods:</b>	A
Serum/plasma/urine	Creatinine	LPB COB004  <b>Using kinetic photometric methods:</b>	A+B
Serum/plasma/urine	Urea	LPB COB003  <b>Using KIMS methods:</b>	A+B
Serum/plasma	Carbamazepine	LPB COB034	A
Serum/plasma	Phenytoin	LPB COB036	A
Serum/plasma	Phenobarbitone	LPB COB035	A
Serum/plasma	Theophylline	LPB COB048	A
Serum/plasma	Gentamicin	LPB COB055	A
Serum/plasma	Vancomycin	LPB COB050	A



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Serum/Plasma/urine	Chloride	LPB COB005	A+B
	Potassium	LPB COB005	A+B
	Sodium	LPB COB005	A+B
		<b>Ivicon XS Spectrophotometer using spectrophotometry methods:</b>	
CSF	Xanthochromia	LPB MIS022	A
		<b>Alere Easy HCG kit using immunochromatographic methods:</b>	
Urine	HCG	LPB MIS021	A
		<b>Advanced Instruments Micro osmometer 3300 using freezer point depression:</b>	
Serum/plasma/urine	Osmolality	LPB MIS010	A
		<b>Corning 925 Chloride analyser measuring Chloride:</b>	
Sweat	Chloride	LPB MIS014	A





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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u> (cont'd)	Documented in house methods and manufacturer's instructions for:	
Urine	VMA 5HIAA HVA Adrenaline Noradrenaline Dopamine Normetadrenaline Metadrenaline	<b>Gilson HPLC with Chromsystems specific kit:</b>  LPB HPL001 LPB HPL001 LPB HPL001 LPB HPL002 LPB HPL002 LPB HPL002 LPB HPL002 LPB HPL004 LPB HPL004  <b>Sebia Hydrasys using Hydragel-Electrophoresis and immunofixation</b>  Protein electrophoresis LPB PRO003 Immunofixation LPB PRO004	A
Serum/Plasma/urine	Monoclonal bands		A
Serum/plasma/urine	Characterising abnormal protein bands identified during routine protein electrophoresis		A
	<u>Calculated tests for the purposes of clinical diagnosis</u>	Documented in house methods and manufacturer's instructions using LFB LAB004 Roche Cobas 8100 system C702/e801 (A) C702/e602 (B)	A B
Serum/Plasma	Globulin	Roche C8100	
Serum/Plasma	Adjusted calcium	Roche C8100	
Serum/Plasma	EGFR	Roche C8100	
Serum/Plasma	Cholesterol/HDL ratio	Roche C8100	
Serum/Plasma	LDL cholesterol	Roche C8100	
Urine	24 hr Sodium	Roche C8100	
Urine	24 hr Potassium	Roche C8100	
Urine	24 hr Urea	Roche C8100	



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HUMAN BODY FLUIDS (cont'd)	<u>Calculated tests for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions using LFB LAB004	A B
Urine	24 hr Creatinine	Roche C8100	
Urine	24 hr Calcium	Roche C8100	
Urine	24 hr Phosphate	Roche C8100	
Urine	24 hr Amylase	Roche C8100	
Urine	24 hr Total Protein	Roche C8100	
Urine	Protein/Creatinine ratio	Roche C8100	
Urine	Creatinine Clearance	Roche C8100	
Urine	Microalbumin	Roche C8100	
Urine	24 hr glucose	Roche C8100	
Urine	Calcium/Creatinine ratio	Roche C8100	
Serum/Plasma	Saturation	Roche C8100	
Urine/Serum/Plasma	Amylase/creatinine clearance	Roche C8100	
Urine	Phosphate/creatinine ratio	Roche C8100	
Urine/Serum/Plasma	Urine/Plasma Osmolality	LIMS	
Whole blood	HbA1c	LIMS	
Serum/Plasma	Alcohol	Roche C8100	
Serum/Plasma	TIBC	Roche C8100	
END			