


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 9480 Accredited to ISO 15189:2022	NHS Lanarkshire	
	Issue No: 010 Issue date: 25 April 2025	
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Testing performed at the above address only		

Site activities performed away from the locations listed above:

Location details	Activity
FNA clinic Monklands Hospital Airdrie ML6 0JS	FNA sample collection and slide preparation Renal biopsy adequacy assessment
FNA clinic Wishaw Hospital 50 Netherton Street Wishaw ML2 0DP	FNA sample collection and slide preparation



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUES Tissue: biopsy, excision and resection Formalin Fixed Paraffin wax blocks of processed tissue including cytology clots. Formalin Fixed Paraffin wax blocks Fresh tissue FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis Frozen section to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis Routine morphological staining for the detection of: Basophilic and eosinophilic structures	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified: Specimen dissection LP-LPAT-DissOper [LP-1752] Tissue Processing using Thermo Excelsior AS (x3) and Thermo Excelsior (x2) processors LP-LPAT-TissueProcessing [LP-1753] Tissue Embedding using Thermo Histostar and Sakura Tissue Tek embedding centres LP-LPAT-TissEmbed[LP-1754] Leica autocut microtomes LP-LPAT-Microtomy[LP-1757] Leica CM1950 cryostat Manual H&E staining LP-LPAT-Cryotomy [LP-1857] Automated Haematoxylin and Eosin stain using Sakura tissue-Tek Prisma Plus LP-LPAT-CStainer [LP-1759]



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HUMAN BODY TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides	Special stains for the detection of:	Documented in-house procedures for special stains using Roche BenchMark automated special stainer and manual methods
	Acid Mucopolysaccharides	LP-LPAT-SpecStains [LP-1844] LP-LPAT-BSS [LP-1845] Alcian blue – Manual method
	Acid and Neutral Mucopolysaccharides	Alcian blue PAS+/- diastase - Manual method
	Tubercle Bacilli	Auramine rhodamine - Manual method
	Amyloid	Congo red – Automated and Manual methods
	Helicobacter	Cresyl violet – Manual method
	Elastic Fibres	Elastic H&E – Manual method
	Elastic fibres and connective tissue	EVG - Manual method
	Gram positive and negative microorganisms	Gram – Manual method
	Fungi, Melanin	Gms - Automated and Manual methods



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HUMAN BODY TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Special stains for the detection of: (cont'd)	Documented in-house procedures for special stains using Roche BenchMark automated special stainer and manual methods
	Acid mucins, more sensitive than Alcian Blue for scanty deposits	Hale's colloidal iron -Manual method
	Glomeruli	Jones light green – Automated and Manual methods
	Melanin	Masson fontana - Manual method
	Copper associated protein and Hepatitis B	Shikata orcein – Manual methods
	Neutral Mucopolysaccharides, glycogen and fungus	Periodic acid schiff +/-diastase – Automated and Manual methods
	Haemosiderin and ferric iron	Iron stain (Perls) – Automated and Manual methods
	Reticulin Fibres	Reticulin stain - Automated and Manual methods
	Amyloid	Thioflavin T - Manual method
	Mast cells	Toluidine blue - Manual method
	Connective Tissue	Van gieson - Manual method



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Special stains for the detection of: (cont'd)	Documented in-house procedures for special stains using Roche BenchMark automated special stainer and manual methods
	Leprosy Bacilli	Wade fite - Manual method
	Tubercle Bacilli	Ziehl-Neelsen –Automated and Manual methods
FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides	Immunohistochemistry to detect the following:	Using Roche BenchMark Ultra ICC stainers SN312469 SN312414 SN312421 SN312260
		LP-LPAT-ICC[LP-1849]
		Incorporating the following antibodies:
	Epithelial differentiation, Small round blue cell tumours, Specific soft tissue tumour	AE1/3
	Embryonic cell in normal tissues and germ tumours	AFP
	Hodgkin vs Non-Hodgkin Lymphoma, Soft tissue tumour, ALCL, Inflammatory myofibroblastic tumour	ALK1
	HGPIN, prostate adenocarcinoma	AMACR



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Using Roche BenchMark Ultra ICC stainers
	Hairy Cell Leukaemia	ANNEXIN
	Diffuse lymph-proliferative disease and neoplastic cells of follicular lymphomas.	BCL2
	B Cell Lymphoma, Hodgkin vs Non-Hodgkin Lymphoma	BCL6
	Epithelial cell types Cytological epithelial differentiation Pleura: Adenocarcinoma vs Mesothelioma,	BerEP4
	T cell receptors	BETA F1
	B cell Oct binding protein 1	BOB 1
	Colon vs Ovarian Carcinoma	CA125
	Adenocarcinoma & TCC excluding HCG, prostatic & renal in certain clinical settings.	CA19.9
	Medullary Thyroid Carcinoma	CALCITONIN
	Adrenocortical Tumours, Pleura: Adenocarcinoma vs Mesothelioma, adenomatoid tumours, sex cord stromal tumours	CALRET
	Differential diagnosis: Carcinoma vs non- epithelial tumour	CAM5.2
	Specific Carcinomas, B Cell Lymphomas, Kidney: Renal Epithelial Tumours, endometrial stromal sarcoma, AFX	CD10



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Using Roche BenchMark Ultra ICC stainers
	GIST: Mutation vs Wild Type, Mastocytosis, Germ Cell Tumours, Kidney: Renal epithelial Tumours, Mast Cells	CD117
	Plasma cell Neoplasm, Lymphoproliferative Neoplasms	CD138
	Hodgkin vs Non-Hodgkin Lymphomas, Skin: Adnexal Tumours, Adenocarcinoma vs Mesothelioma	CD15
	Lymph node, Langerhans cell histiocytosis, thymoma	CD1A
	T Cell Lymphoma, Mastocytosis	CD2
	B Cell Lymphomas, Lymphoblastic Lymphomas: B Cell vs T cell	CD20
	Lymph Node, Follicular Dendritic cells	CD21
	B Cell Lymphomas, Follicular Dendritic cells	CD23
	Activated T cells and EBV positive cells	CD25
	B Cell vs T Cell, Lymphoma, T Cell Lymphoma	CD3
	Hodgkin vs Non-Hodgkin Lymphomas, Germ Cell Tumours	CD30
	Spindle Cell tumours, Endothelium and endothelial tumours	CD31
	Acute myeloid leukaemia	CD33



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Using Roche BenchMark Ultra ICC stainers
	Specific Spindle Cell Tumours, Certain Epithelioid soft tissue tumours	CD34
	CLL - prognostic	CD38
	T Cell Lymphoma, Histiocytic Lesions	CD4
	Platelets & Megakaryocytes	CD42B
	Lymphoma, acute Myeloid Leukaemia, Plasma Cells	CD43
	Lymphoid differentiation	CD45
	Thymus, B Cell Lymphomas, Lymphoblastic Lymphomas: B Cell vs T Cell, T Cell Lymphomas, MCL, CLL	CD5
	Thymus, Neuroid Skin Lesions, T Cell Lymphomas, Small round blue cell tumours, Hodgkin's vs Non-Hodgkin's Lymphoma	CD57
	Neoplastic Plasma cells, Pancreatic Tumours, Spindle Cell tumours, T Cell Lymphomas, Neuroendocrine tumours	CD56
	Acute Myeloid Leukaemia, Lymph Node, Histiocytic differentiation	CD68
	Lymphoblastic Lymphomas: B Cell vs T Cell, T Cell lymphomas	CD7
	Follicular centre cell lymphoma	CD75
	B Cell Lymphomas, Plasma Cells	CD79A



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Using Roche BenchMark Ultra ICC stainers
	T Cell Lymphomas	CD8
	Certain Soft Tissue Sarcoma, Skin: Spindle Cell Tumours, Sex Cord Stromal Tumours, Thymoma	CD99
	Carcinomas, Lower GI Carcinomas	CDX2
	Liver: Malignant vs Benign, Pleura: Adenocarcinoma vs Mesothelioma, Carcinomas, HCC	CEA
	Neuroendocrine differentiation, Certain Retroperitoneal lesions, Adrenal medullary tumours	CHROMOG
	Pleura: Adenocarcinoma vs Mesothelioma, Lymphatics, Skin: Certain Spindle Cell Tumours, Germ Cell Tumours vs Somatic Adenocarcinoma, Renal Cell Carcinoma vs Haemangioblastoma	CK5/6
	Identification of the origin of certain carcinomas	CK7
	Prostate: Malignant vs Benign, Prostate basal cells	CKB
	Epithelial differentiation, Certain Soft tissue tumour	CKMNF116
	Cytomegalovirus	CMV
	Plasma Cells, MCL, Melanoma	CYC D1
	Smooth and skeletal muscle differentiation	DESMIN



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Using Roche BenchMark Ultra ICC stainers
	Breast Carcinoma, Small Cell Carcinoma vs Merckel Cell Carcinoma	E CAD
	Hodgkin vs Non-Hodgkin Lymphomas, Skin: Adnexal Tumours, Skin: Basal vs Squamous Cell Carcinoma. Carcinomas. Certain Sarcomas	EMA
	Breast Carcinomas, Endometrial Carcinomas	ER
	Factor VIII in endothelial cells	Factor V111
	Differentiating luminal breast epithelial cells and gynae epithelial cells	GATA3
	Carcinomas, Carcinoma differential diagnosis, Breast Lesion, Breast vs Lung vs Prostate Carcinoma	GCDFP
	Glial fibrillary protein	GFAP
	To aid in the classification of neoplasms derived from the erythroid lineage (e.g. leukaemia)	Glycophorin C
	T Cell Lymphomas, Hodgkin vs Non-Hodgkin Lymphoma	GZB
	Liver: Malignant vs Benign	HEPATO
	Human herpes virus 8 Kaposi	HHV-8
	Germ Cell Tumours vs Somatic Adenocarcinoma, Placental Trophoblastic Cells, Placental Trophoblastic Proliferations	HCG



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Using Roche BenchMark Ultra ICC stainers
	Melanocytic Lesions, PEComa, Adrenal tumours	HMB45
	Human Papilloma virus 18, cervical tissue	HPV18
	Adrenal Tumours, Germ Cell Tumours vs Carcinoma, Sex Cord Stromal Tumours	INHIBIN
	B Cell Lymphomas, Immunoglobulin Heavy and Light Chain Differentiation	KAPPA
	Cell Proliferation, Bladder Dysplasia vs Reactive	KI 67
	B Cell Lymphomas, Immunoglobulin Heavy and Light Chain Differentiation	LAMBDA
	Melanotic Tumours, Adrenal Tumours, PEComa	MEL A RED
	Melanotic Tumours, Adrenal Tumours, PEComa	MELA
	Melanocytic Lesions	MITF1 RED
	Adeno / Meso panel	MOC 31
	Muscle Actin	MSA
	B Cell Lymphomas, Hodgkin vs Non-Hodgkin Lymphomas, Myeloma, Melanoma	MUM1



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides	Immunohistochemistry to detect the following: Papillary Thyroid Carcinoma Certain Cutaneous Neoplasm, Pancreas Bladder: Dysplasia vs Reactive, Carcinomas, Cutaneous Neoplasm. Used in identifying the Origin of Certain Carcinomas Spindle cell squamous cancer, lung cancer vs mesothelioma HCC, germ cell tumours, Melanoma, Wilms tumour Melanocytic Lesions, PEComa, Adrenal tumours Human Papilloma virus Cell Proliferation, Bladder Dysplasia vs Reactive Pleura: Adenocarcinoma vs Mesothelioma, Colon vs Ovarian Carcinoma, Kidney: Renal Epithelial Tumours, Skin: Basal vs Squamous Cell Carcinoma, Carcinomas Myeloproliferative disorder Lung Adeno CA Neuronal tissue, Neuroendocrine differentiation B Cell Lymphomas, Hodgkin vs Non-Hodgkin Lymphomas, Acute Myeloid Leukaemia	Using Roche BenchMark Ultra ICC stainers CK19 CK20 CK5 GLYPICAN 3 HMB45R HPVR KI67R MOC-31(ERA) MYELO NAPSIN NSE OCT 2



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Using Roche BenchMark Ultra ICC stainers
	P16 protein – Head and Neck carcinoma, Cervical Squamous Carcinoma	P16
	Pulmonary Sq cell CA & Urological ca	P40
	Ovarian tumours, Barrett's Oesophagus, Bladder Dysplasia vs Reactive, Liver: Malignant vs Benign, Mesothelial Cells: Malignant vs Benign	P53
	Carcinomas, Squamous differentiation, Breast Myoepithelial cells, Prostate basal cells	P63
	B Cell vs T Cell	PAX5
	Confirming Uro-genital, Gynae tumours. Thyroid	PAX8
	Gynaecological Carcinomas, Renal carcinoma, Thyroid carcinoma	PD1(NAT)
	Confirm Prostatic Aden vs Normal	PIN4/AMACR
	Soft tissue tumours	PLAP
	Plasma cells	PLASMA CELL
	Breast Carcinomas, Endometrial Carcinomas	PR
	Prostatic and neoplastic salivary gland epithelium	PSA
	Prostatic epithelium	PSAP



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Using Roche BenchMark Ultra ICC stainers
	Melanocytic Lesions, Neuronal differentiation, Histiocytes, Myoepithelial differentiation	S100
	Melanocytic Lesions, Neuronal differentiation, Histiocytes, Myoepithelial differentiation	S100RED
	Amyloid A	SAA
	Myosin in Smooth Muscle	SMM
	Mantle Cell Lymphoma	SOX11
	Neuroendocrine marker	SYNAP
	Tumour infiltrating lymphocytes-cytotoxic T cells & NK cells.	TIA
	Lymphoblastic Lymphomas	TdT
	Thyroid epithelium	THYRO
	Used in identifying the Origin of Certain Carcinomas, Lung, Thyroid Carcinoma and certain neuroendocrine tumours	TTF1
	Aids in classification of neoplastic tissues of mesenchymal origin	VIMENTIN
	Pleura: Adenocarcinoma vs Mesothelioma, Ovarian Serous Carcinoma, Small round blue cell tumours, Wilms Tumour	WT1



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Using Roche BenchMark Ultra ICC stainers
	Prostate adeno & normal adeno	PIN4/RAC (dual staining)
	Epithelial v muscle	AE13/DES (dual staining)
	CIN assessment	KI67/P16 (dual staining)
	Lung Cancer	CK56/TTF1(dual staining)
	Lung & other Ca proliferation	CK56/Ki67 (dual staining)
FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides	In situ hybridisation to detect the following:	Using Roche BenchMark Ultra ICC stainers SN312469 SN312414 SN312421 SN312260
		LP-LPAT-ICC[LP-1849]
		Incorporating the following antibodies:
	Epstein Barr Virus	EBV (ISH)
	Kappa Light chains	Kappa (ISH)
	Lambda light chains	Lambda (ISH)



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HUMAN BODY TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Fresh tissue sections from skin and renal samples	Immunofluorescence to detect inflammatory skin and renal disease	Leica CM1950 Cryostat FSE, Fluorescent microscope Olympus BX40F-3
	Renal: membranous glomerulonephritis, SLE (Systemic lupus erythematosus), MPGN membranous proliferative GN	Roche BenchMark Ultra ICC stainer LP-LPAT-IF[LP-1821]
	Skin: Pemphigus vulgaris, Epidermolysis bullosa acquisita, Pemphigus foliaceus, Epidermolysis bullosa acquisita, SLE and Paraneoplastic pemphigus	Incorporating the following antibodies: IgG
	Renal: IgA disease & SLE	IgA
	Skin: Immunoglobulin (Ig) A pemphigus, Bullous pemphigoid, Dermatitis Herpetiformis, Mucous membrane pemphigoid (cicatricial pemphigoid)	
	Renal: SLE	IgM
	Skin: Hyper IgM Syndrome, Bullous pemphigoid and SLE	



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Fresh tissue sections from skin and renal samples (cont'd)	Immunofluorescence to detect inflammatory skin and renal disease (cont'd)	Thermo Shandon Cryotome FSE CC133A0903 ,Fluorescent microscope Olympus BX40F-3 Roche BenchMark Ultra ICC stainer LP-LPAT-IF[LP-1821] Incorporating the following antibodies: C3c
	Renal: membranous glomerulonephritis, SLE, MPGN membranous proliferative GN, IgA disease Skin: Pemphigus vulgaris, Pemphigus foliaceus, Pemphigoid gestationis, Mucous membrane pemphigoid (cicatricial pemphigoid) and SLE	
	Renal: SLE	C1q
	Renal: Amyloid, LCDD Light chain deposition disease, LC cast nephropathy	KAPPA, LAMBDA
Stained slides made using processes above	Examination of tissue sections in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Interpretive/diagnostic microscopy using Nikon light microscopes LP-LPAT-Medic&AP[LP-1242]



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<p>HUMAN BODY FLUIDS</p> <p>Head and Neck FNA Lymph nodes FNA Brushings EBUS/EUS FNA's Urines Serous and Cyst fluids Bronchial washings Bronchial brushings Sputum Synovial fluid</p>	<p><u>Cytological examination activities for the purposes of clinical diagnosis</u></p> <p>Examination of cellular material in order to identify or exclude morphological and cytological abnormalities</p> <p>Demonstration of cells (nuclei and cytoplasm) and microorganisms</p> <p>Demonstration of cells (nuclei and cytoplasm)</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Using: Thermo centrifuge x2 Hologic T2000 Manual direct smear prep.</p> <p>LP-LPAT-NonGynPrep [LP-106] LF-LPAT-NGTrak [LF-3189]</p> <p>Manual May Grunwald Giemsa method LP-LPAT-NonGynPrep[LP-106] Appendix7</p> <p>Manual Papanicolaou method LP-LPAT-NonGynPrep[LP-106] Appendix5 & 6</p>



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Liquid Based Cervical Cell Samples	Qualitative detection of HPV for diagnosis of precancerous and cancerous cervical cells.	In house documented procedures using Hologic Tomcat pre-analytical platform and targeted amplification nucleic acid probes on the Hologic Panther and using the Aptima kit. LP-1964 LP-1978
Liquid Based Cervical Cell Samples	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities	Using: Hologic T5000 Autoloader Hologic T2000 manual processor Automated Papanicolaou staining using Sakura Tissue-Tek Prisma Plus stainer and Auto coverslipper Hologic imager Olympus imager review workstations LP-LPAT-CYTOSCREEN[LP-1023] LP-LPAT-CYTOLOGYPREP[LP-10]
Stained slides made using processes above	Examination of slides in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Interpretive/diagnostic microscopy using Nikon light microscopes LP-LPAT-CytoScreen[LP-1023] LP-LPAT-CytoAdmin[LP-8] LP-LPAT-Medic&AP[LP-1242]



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Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd) Semen	<u>Andrological examination activities for the purposes of clinical diagnosis</u> <u>Fertility testing:</u> Volume pH Sperm morphology excluding TZI scoring Sperm concentration Sperm motility	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method using documented in-house procedure LE-LPAT-SAPROCESS LP-LPAT-SEMANALYSIS Volume/weight Colorimetric strips Stained slides (Papanicolau) microscopy (Bright field) Microscopy (Phase contrast) Microscopy (Phase contrast)
END		