


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>Accredited to ISO 15189: 2012</p>	<h3>HSL (Analytics) LLP</h3> <p>Issue No: 005    Issue date: 03 March 2025</p>	
	<p>The Michael Letcher Department of Cellular Pathology The Princess Alexandra Hospital NHS Trust Hamstel Road Harlow Essex CM20 1QX</p>	<p>Contact: Andrew Clarke Tel: +44 (0) 020 7307 7342 E-Mail: Andrew.Clarke@hslpathology.com Website: www.hslpathology.com</p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY TISSUE</p> <p>Tissue: formalin-fixed biopsy, excision, resection and post-mortem specimens</p>	<p>Histopathological examination activities for the purposes of clinical diagnosis</p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Supported by:</p> <p>Specimen dissection</p> <p>Key SOPs LP 730 002 Cellular Pathology Specimen Reception Area Dissection LP 730 001 General Cut Up procedures LP 730 005 BMS Tissue Transfer LP 730 007 Fixation LP 730 008 Decalcification LP 730 009 Macropath digital photography LP 730 019 Xylene clearance LP 730 021</p> <p>Tissue processing using Leica Peloris, Sakura VIP6 AI</p> <p>Key SOP Tissue Processing and maintenance of the tissue processors LP 730 016</p> <p>Tissue embedding using Sakura Tissue Tek and Leica Arcadiaembedding centres</p> <p>Key SOP Embedding LP 730 018</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Formalin Fixed Paraffin wax blocks of processed tissue.</p> <p>Fresh/frozen tissue</p> <p>FFPE slides (Formalin fixed paraffin embedded)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Intraoperative examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p> <p>Demonstration of:</p> <p>Basophilic and eosinophilic structures</p> <p>Acid Mucins</p> <p>Acid and neutral mucins</p> <p>Amyloid</p> <p>Elastic Fibres and Connective Tissue</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Microtomy using Leica 2135, Leica 2235, microtomes.</p> <p>Key SOPs General Introduction to routine histology LP 730 024</p> <p>Procedure for cutting paraffin sections LP 730 026</p> <p>Epredia NX50 Cryostat Key SOPs LP 730 034 Procedure for frozen sections</p> <p>H&amp;E for frozen LF740 021</p> <p>Macroscopic and Microscopic examination:</p> <p>Automated staining and coverslipping using Leica Spectre stainer and coverslipper Key SOP Automated Haematoxylin and Eosin staining and coverslipping LP 730 028</p> <p>Manual staining methods: Alcian Blue LF740 001</p> <p>Alcian Blue - PAS LF740 002</p> <p>Congo Red LF740 005</p> <p>Elastin Van Gieson LF740 008</p>



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HUMAN BODY TISSUE (cont'd)  FFPE slides (cont'd) (Formalin fixed paraffin embedded)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd) Demonstration of: (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
	Helicobacter pylori	Giemsa for Helicobacter pylori LF740 012
	Reticulin fibres	Gordon and Sweets Reticulin LF740 013
	Gram positive and negative bacteria	Gram stain LF740 015
	Fungi, melanin, glycogen and Pneumocystis carinii (PCP)	Grocott LF740 018
	Routine stain for all examination of all tissue components, nuclear detail	H&E – Haematoxylin and Eosin LF740 020
	Melanin	Masson Fontana LF740 026
	Connective Tissue	Masson's Trichrome LF740 027
	Basement membrane	Modified Hexamine Silver LF740 032
	Fibrin connective tissue	MSB - Martius Scarlet Blue LF740 033
	Hepatitis B surface antigens and copper associated protein	Orcein LF740 037
	Polysaccharides including glycogen, fungi and mucins	PAS(D) LF740 038
	Haemosiderin	Perl's LF740 039



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HUMAN BODY TISSUE (cont'd) FFPE slides (cont'd) (Formalin fixed paraffin embedded)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd) Demonstration of: (cont'd)  Mucin, Cryptococcus neoformans  Mast cells  Connective tissues, collagen  Calcium Salts  Mycobacterium spp including tuberculosis	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:  Southgate's Mucicarmine LF740 045  Toluidine Blue LF740 050  HVG – Haematoxylin Van Gieson LF740 052  Modified Von Kossa LF740 053  Ziehl-Neelsen (ZN) LF740 056
FFPE slides (Formalin fixed paraffin embedded)	Immunohistochemistry to detect the following:  High molecular weight cytokeratins; CK1,5,10 and 14.  Pan cytokeratin marker  Diagnosis of specific carcinomas  Oncoprotein marker, B-cell lineage  Epithelial cells  Lung, endometrial and ovarian carcinomas	Documented in-house methods used in accordance with Leica's operating instructions for the use of Bond Max and Bond III automated immunostainers.  Key SOPs General introduction to Immunocytochemistry and use of equipment LP 750 001  Incorporating the following antibodies: 34BE12  AE1/AE3  AFP  BCL2  BerEp4  CA125



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HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:	
FFPE slides (cont'd) (Formalin fixed paraffin embedded)	Immunohistochemistry (cont'd)		
	Mesothelial cells		Calretinin
	T cell marker		CD3
	T cells, B cells in the mantle zone		CD5
	Burkitt's Lymphoma, Lymphoma panel		CD10
	Hodgkin's Lymphoma		CD15
	B-cell marker		CD20 (L26)
	Follicular dendritic cells		CD21
	Lymphoma panel		CD23
	Reed-Sternberg cells		CD30
	Endothelial Marker		CD34
	Leucocyte common antigen		CD45 (LCA)
	Neural cell adhesion molecule		CD56
	Macrophages		CD68
	B-cell marker		CD79a
	Mast cells and GIST		CD117 (c-kit)
	Plasma cells		CD138
	Intestinal epithelial cells		CDX2
	Carcinoembryonic antigen		CEA
	Neuroendocrine	Chromogranin A	
	Basal cell subtypes in prostate	CK5	



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HUMAN BODY TISSUE (cont'd) FFPE slides (cont'd) (Formalin fixed paraffin embedded)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd) Immunohistochemistry (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
	Squamous and epithelial cells	Cytokeratin 5/6
	Glandular, transitional epithelial cells	Cytokeratin 7
	Basal epithelial cells	Cytokeratin 14
	Epithelial cells	Cytokeratin 19
	Gastrointestinal epithelial cells	Cytokeratin 20
	Mantle cell lymphoma	Cyclin D1
	Intermediate filaments	Desmin
	Cell adhesion molecule	E-Cadherin
	Epithelial membrane antigen	EMA (Epithelial Membrane Antigen)
	Oestrogen receptors	ER (Oestrogen Receptor)
	Lymphatic endothelium	Factor 8 (Von Willebrand Factor)
	Bladder and breast cancer	GATA-3
	Trophoblasts	Human Chorionic Gonadotrophin
	Human epithelial receptors in breast cancer	HER2 – Human Epithelial Receptor 2
	Melanosomes	HMB45
	Immunoglobulin kappa light chains	Kappa light chains
	Immunoglobulin lambda light chains	Lambda light chains



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HUMAN BODY TISSUE (cont'd)  FFPE slides (cont'd) (Formalin fixed paraffin embedded)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd) Immunohistochemistry (cont'd)  Melanocytes  Cell proliferation marker  Broad range cytokeratins  Differentiation between adenocarcinoma and reactive mesothelial cells  Myoepithelial cells  Identification of tumours of lung origin  Identification of renal cell carcinoma, thyroid carcinoma and gynae origin	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:  Melan A  MIB-1  MNF116  MOC-31  Myosin  Napsin  PAX-8



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	P16 expression in Cervical Intraepithelial Neoplasia and cervical SCC. H&N and HPV infection	P16
	Tumour suppressor gene	P53
	Basal cell marker	P63
	Prostatic Acid Phosphatase	Prostatic Acid Phosphatase
	Placental Alkaline Phosphatase	Placental Alkaline Phosphatase
	Progesterone receptors	PR (Progesterone Receptor)
	Prostate specific antigen	PSA (Prostate Specific Antigen)
	Melanoma, neuroendocrine	S100
	Myoepithelial and smooth muscle	SMA (Smooth Muscle Actin)
	Neuroendocrine	Synaptophysin
	Thyroid transcription factor-1	TTF1 (Thyroid transcription factor 1)
	Mesenchymal marker	Vimentin





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<p>HUMAN BODY TISSUE (cont'd)</p> <p>FFPE slides (cont'd) (Formalin fixed paraffin embedded)</p> <p>Slides prepared in house as above</p>	<p>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</p> <p>Immunohistochemistry (cont'd)</p> <p>Wilms tumour gene product</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>WT1 (Wilm's tumour)</p> <p>Using various Olympus and Nikon mirosopes</p> <p>Key SOP General pffice procedures DOC7196</p>



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<p><b>HUMAN BODY TISSUE/CELLS</b></p> <p>Fluids, brushings, imprints, fine-needle aspirations from a diverse range of body sites including CSF, ascitic fluid, pleural fluid, synovial fluid, sputum, Breast FNA, FNA from other sites, Serous Fluid / Cyst Fluid, Bronchial washings and brushings, urine, skin scrapes</p>	<p>Cytopathological (Non-Gynae) examination activities for the purposes of clinical diagnosis</p> <p>Examination of cellular material in order to identify or exclude morphological and cytological abnormalities</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Diagnostic cytology (non-gynae) preparation, screening and reporting using T2000 processor, Leica Autostainer XLand CV 5030 stainer/cover slipper.</p> <p>Key SOPs Operating procedures for the Thinprep 2000 system LP 710 017</p> <p>Preparation of non-gynae specimens on the T2000 processor LP-710-071</p> <p>Staining and Coverslipping of Cytology Specimens LP 710 011</p>
	<p>Basophilic and eosinophilic structures</p>	<p>Haematoxylin and Eosin LP 710 011</p>
	<p>Differentiation of cell types and cytological abnormalities</p>	<p>Automated PAP stain LP 710 011</p> <p>Manual May-Grunwald Giemsa stain LP 710 011</p>
<p>Synovial fluid</p>	<p>Assessment of birefringent crystals of urate and pyruvate</p>	<p>Using BX51 Dual view microscope</p> <p>Key SOP Preparation of synovial fluids LP 710 028</p>
<p>Slides prepared in house as above</p>	<p>Morphological assessment and interpretation/diagnosis</p>	<p>Using various Olympus and Nikon microscopes</p> <p>Key SOP General office procedures DOC7196</p>
<p>END</p>		