


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 9306 Accredited to ISO 15189:2012	The Princess Alexandra Hospital NHS Trust	
	Issue No: 002 Issue date: 26 April 2020	
	The Michael Letcher Department of Cellular Pathology The Princess Alexandra Hospital NHS Trust Hamstel Road Harlow Essex CM20 1QX	Contact: Mrs Lisa Greenhalgh Tel: +44 (0)1279 827094 / 01279 444455 ext 3329 E-Mail: lisa.greenhalgh@pah.nhs.uk Website: www.pah.nhs.uk
Testing performed at the above address only		

Site activities performed away from the locations listed above:

Location details	Activity
Main Hospital Site Building 4 Location A10 &11	Mortuary Services: Body Receipt/Release, Cold Storage, Post-Mortem Facility



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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><u>Histopathological examination activities for the purposes of clinical diagnosis</u></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 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, Leica ASP300, ThermoShandon Pathcentre, Sakura VIP6</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 EG1160 embedding 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</u> (cont'd)</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, and Microm HM325 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>Leica CM1900 Cryostat</p> <p>Key SOPs LP 730 034</p> <p>H&E for frozen LF740 021</p> <p>Macroscopic and Microscopic examination: Automated staining and coverslipping using Leica ST5020 and CV5030 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)	<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 (cont'd) (Formalin fixed paraffin embedded)	Demonstration of: (cont'd)	
	Hematopoietic cells	Giemsa LF740 011
	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
	Amyloid	Sirius Red LF740 044



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HUMAN BODY TISSUE (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 (cont'd) (Formalin fixed paraffin embedded)	Demonstration of: (cont'd)	
	Mucin, Cryptococcus neoformans	Southgate's Mucicarmin LF740 045
	Mast cells	Toluidine Blue LF740 050
	Connective tissues, collagen	HVG – Haematoxylin Van Gieson LF740 052
	Calcium Salts	Modified Von Kossa LF740 053
	Mycobacterium spp including tuberculosis	Ziehl-Neelsen (ZN) LF740 056
FFPE slides (Formalin fixed paraffin embedded)	Immunohistochemistry to detect the following:	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
	High molecular weight cytokeratins; CK1,5,10 and 14.	Incorporating the following antibodies: 34BE12
	Pan cytokeratin marker	AE1/AE3
	Diagnosis of specific carcinomas	AFP
	Oncoprotein marker, B-cell lineage	BCL2
	Epithelial cells	BerEp4
	Lung, endometrial and ovarian carcinomas	CA125



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HUMAN BODY TISSUE (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 (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
	Haematological malignancies	CD11c
	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



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HUMAN BODY TISSUE (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 (cont'd) (Formalin fixed paraffin embedded)	Immunohistochemistry (cont'd)	
	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)
	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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FFPE slides (cont'd) (Formalin fixed paraffin embedded)	Immunohistochemistry (cont'd)	
	Melanocytes	Melan A
	Cell proliferation marker	MIB-1
	Broad range cytokeratins	MNF116
	Myoepithelial cells	Myosin
	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
	Follicular cells of thyroid	Thyroglobulin
	Thyroid transcription factor-1	TTF1 (Thyroid transcription factor 1)
	Mesenchymal marker	Vimentin



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HUMAN BODY TISSUE (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 (cont'd) (Formalin fixed paraffin embedded)	Immunohistochemistry (cont'd) Wilms tumour gene product	WT1 (Wilm's tumour)
Slides prepared in house as above	Morphological assessment and interpretation/diagnosis	Using various Olympus and Nikon microscopes Key SOP Histology and non-gynae reporting MP780 013



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<p>HUMAN BODY TISSUE/CELLS</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><u>Cytopathological (Non-Gynae) 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>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 ST 5020 and CV 5030 stainer/coverslipper.</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>Automated Staining and Coverslipping of Cytology Specimens LP 710 011</p>
<p>Synovial fluid</p>	<p>Basophilic and eosinophilic structures</p> <p>Differentiation of cell types and cytological abnormalities</p> <p>Assessment of birefringent crystals of urate and pyruvate</p>	<p>Haematoxylin and Eosin LP 710 011</p> <p>Automated PAP stain LP 710 011</p> <p>Manual May-Grunwald Giemsa stain LP 710 011</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 Histology and non-gynae reporting MP780 013</p>
END		