


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>UKAS</b> MEDICAL 8954 Accredited to ISO 15189:2012	<b>Isle of Wight NHS Trust</b>	
	Issue No: 005    Issue date: 17 April 2024	
	Department of Cellular Pathology St. Mary's Hospital Newport Isle of Wight PO30 5TG	Contact: Helen Tasker E-Mail: <a href="mailto:helen.tasker@nhs.net">helen.tasker@nhs.net</a> Website: <a href="http://www.iow.nhs.uk">www.iow.nhs.uk</a>
Testing performed at the above address only		

### Supporting activities performed at the location listed above:

Location details		Activity
Mortuary Department of Cellular Pathology (as above)	Helen Tasker (contact details above)	Mortuary services (inc. body receipt, storage & release) for Coroner's deceased and hospital consented cases.



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#### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES	<u>Histopathology</u>  Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Tissues		<u>Macroanalysis, dissection &amp; decalcification</u> using: HIS-LP-CutupGuide
Tissues		<u>Processing</u> using: HIS-LP-ExcelProcess Sakura Tissue-Tek VIP6 AI Processors
Tissues		<u>Embedding</u> using: HIS-LP-Embed and Sakura embedding centre
Tissues		<u>Sectioning &amp; slide production</u> using: HIS-LP-Microt and Leica Histocore and Multicut rotary microtomes
Tissues	All tissue components: Nuclei Cytoplasm Muscle fibres Red blood cells Fibrin	<u>Routine Haematoxylin and Eosin (H&amp;E) staining &amp; coverslipping</u> using: HIS-LP-Auto and Sakura Tissue-Tek Prisma automated staining machine and Tissue Tek film coverslipper



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Tissues	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Immunocytochemistry to detect the following:	<u>Immunocytochemistry</u> Automated procedures using: HIS-LP-Bond and BondMax immune platform, polymer refine detection kit, and antibodies as appropriate:
	Cytokeratin 40 to 70 kD	AE1/AE3
	Squamous cell carcinoma Loss of basal cell staining in prostatic carcinoma	34BE12
	Membrane staining follicular lymphoma cells vs. reactive follicles	Bcl-2
	Some adenocarcinomas, (negative in mesothelioma)	BerEp4
	Ovarian epithelial malignancy Serous cystic tumours of the ovary Various adenocarcinomas	Ca125
	Mesothelial cells	Calretinin
	Cytokeratin 8 Secretory epithelium (not stratified epithelium)	Cam5.2
	Mature T cells T cell lymphoma	CD3
	T cells Mantle zone cells Small lymphocytic lymphoma B-cell type	CD5



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Tissues (cont'd)	Immunocytochemistry to detect the following: (cont'd)  Acute lymphoblastic leukaemia antigen Follicular centre cells Follicular centre lymphoma Burkitt's lymphoma Myoepithelial cells  Granulocytes Reed Sternberg cells Neutrophils Various adenocarcinoma  B cells B cell lymphoma  B cells Small lymphocytic lymphoma  Reed Strenberg cells Mononuclear Hodgkin's cells  Platelets Monocytes Granulocytes B cells Endothelial cells  Lymphoid and haemopoietic progenitor cells Vascular endothelium Gastrointestinal stromal tumours  Leucocytes	<u>Immunocytochemistry</u> (cont'd)  CD10  CD15  CD20cy  CD23  CD30  CD31  CD34  CD45



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Tissues (cont'd)	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Immunocytochemistry to detect the following: (cont'd)	<u>Immunocytochemistry</u> (cont'd)
	Neurons	CD56
	Astrocytes	
	Schwann cells	
	NK cells	
	Activated T cells	
	Macrophages	CD68
	Precursor B cells	CD79a
	Receptor tyrosine kinase protein	CD117
	Plasma cells (absent in atypical cells of cervix)	CD138
	Villus and crypts of intestinal epithelial cells	CDX2
	Various adenocarcinoma (absent in mesothelioma)	CEA
	Neural tissues	ChromagraninA
	Secretory granules of endocrine cells	
	Neuroendocrine tumours	
	Mesothelioma	CK5/6
	Squamous cell carcinoma	
	Glandular and transituional epithelia	CK7
	Adenocarcinoma of lung, breast, endometrium, ovary and thyroid	
	Carcinoma of bladder and chromophobe renal cell carcinoma	
	Primary and metastatic lung and colorectal adenocarcinoma	



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Tissues (cont'd)	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Immunocytochemistry to detect the following: (cont'd)	<u>Immunocytochemistry</u> (cont'd)
	Ductal and gladular eithelia.	Ck19
	Colorectal cancers	Ck20
	Adenocarcinoma of gall bladder, bile duct, ductal cell	
	Adenocarcinoma of pancreas	
	Mucinous ovarin tumours	
	Merkel cell tumours	
	Transitional cell carcinoma	
	Mantle cell lymphomas, some breast cancers	CyclinD1
	Lymphatic endothelium	D240
	Lymphangiomas	
	Kaposi sarcomas	
	A subset of angiosarcomas with probable lymphatic differentiation	
	Skeletal & smooth muscle tumours	Desmin
	Epithelial cells	ECad
	Some carcinomas	EMA
	Meningioma	
	Ki-1 lymphoma	
	Plasma cell tumours	
	Microvilli staining in mesothelioma	
	Estrogen receptor cells of breast and other cancers	ER
	Breast, salivary, sweat gland tumours	GATA3
	Melanoma marker, nevus cell	HMB45



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Tissues (con't)	Immunocytochemistry to detect the following: (cont'd)  Kappa light chains - cytoplasmic staining of plasma cells  Lambda light chains - cytoplasmic staining of plasma cells  Melanocytes  Cell proliferation marker  Myeloid cells Granulocytes, Histiocytes and corresponding leukaemias  Rasemase - over expressed in prostate carcinoma  Colonic tumours. Tumour suppressor gene product, marker of poor prognosis  Proliferating cells of epithelium, cervix, urothelium and prostate  Prostatic carcinoma  Progesterone receptor cells of breast, endometrial, ovarian and meningial tumours  Seminoma, other germ cell tumours  Prostatic carcinoma  Neuroectodermal tissue, nerves, melanocytes	<u>Immunocytochemistry</u> (cont'd)  Kappa  Lambda  MelanA  MIB-1  Myeloperoxidase  P504s (AMACR)  P53  P63  PAP  Pgr  PLAP  PSA  S100



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Tissues (cont'd)	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Immunocytochemistry to detect the following: (cont'd)	<u>Immunocytochemistry</u> (cont'd)
	Smooth muscle actin found in vascular walls, intestinal muscularis propria and stroma	SMA
	Myofibroblasts	
	Myoepithelium	
	Leiomyosarcoma	
	Some neuroendocrine tumours	Synaptophysin
	Pulmonary small cell carcinoma	TTF-1
	Pulmonary non-small cell carcinoma	
	Papillary carcinoma	
	Goitre	
	Non-malignant swelling of thyroid	
	Sarcomas	Vimentin
	Lymphomas	
	(co-expressed with cytokeratin in some carcinomas)	
	Wilm's tumour gene	WT-1
	Desmoplastic small round cell tumour	
	Mesothelioma	
	Wilm's tumour	
	Endometrial carcinoma	
	Ovarian surface epithelial tumour	





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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Tissues (cont'd)	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Special stains to detect the following:	<u>Special staining</u> Manual methods using procedures and stains as appropriate:
	Acid mucins Proteoglycans Hyaluronic acid Glycogen	Alcian Blue HIS-LP-AB
	Acidic mucins Neutral mucins Mixtures of acidic & neutral mucins Nuclei	Alcian Blue Periodic Acid Schiffs HIS-LP-ABPAS
	Amyloid	Congo Red HIS-LP-CR
	Absence of glycogen	Diastase Periodic Acid Schiffs HIS-LP-DPAS
	Elastic fibres Cell granules Collagen	Elastic van Gieson HIS-LP-EVG
	Collagen Nuclei	Haematoxylin van Gieson HIS-LP-HVG
	Cells of haematopoietic system	Giemsa for bone marrows HIS-LP-GIE
	<i>Helicobacter pylori</i>	Giemsa for H pylori HIS-LP-GIEHP
	Gram positive organisms Gram negative organisms	Gram HIS-LP-Gram
	Fungi Pneumocystis Melanin Collagen	Grocott HIS-LP-Grocott



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<p>HUMAN TISSUES (cont'd)</p> <p>Tissues (cont'd)</p> <p>Slides prepared in house from samples listed above</p>	<p><u>Histopathology</u> (cont'd)</p> <p>Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>Special stains to detect the following: (cont'd)</p> <p>Nuclei Erythrocytes Muscle Collagen Fibrin</p> <p>Glycogen Nuclei</p> <p>Ferric iron Nuclei</p> <p>Reticulin fibres</p> <p>Mycobacteria</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p><u>Special staining</u> (cont'd)</p> <p>Martius Scarlet Blue HIS-LP-MSB</p> <p>Periodic Acid Schiffs HIS-LP-PAS</p> <p>Perls HIS-LP-Perl</p> <p>Reticulin HIS-LP-Retic</p> <p>Ziehl Neelsen HIS-LP-ZN</p> <p><u>Macroscopic description and Microscopy (qualitative analysis)</u> using: HIS-LP-CutupGuide and microscopes Leica DMRB Nikon Eclipse 80i Nikon Eclipse Ci-E (with and without teaching head) Nikon Eclipse E400</p>



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<p>HUMAN TISSUES (cont'd)</p> <p>Tissues</p> <p>Slides prepared in house from samples listed above</p>	<p><u>Histopathology</u> (cont'd)</p> <p>Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p> <p>Frozen section examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p> <p>All tissue components: Nuclei Cytoplasm Muscle fibres Red blood cells Fibrin</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p><u>Cryotomy</u> using: HIS-LP-Frozen and Eprelia NX70 cryostat</p> <p><u>Routine H&amp;E staining</u> In-house procedures as for Routine Histopathology</p> <p><u>Macroscopic description and Microscopy (qualitative analysis)</u> using: HIS-LP-CutupGuide and microscopes Leica DMRB Nikon Eclipse 80i Nikon Eclipse Ci-E (with and without teaching head) Nikon Eclipse E400</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Aspirates Bronchial lavage Cerebrospinal fluid Cytological smears Pleural fluids Fine needle aspiration Urine</p>	<p><u>Diagnostic cytopathology</u></p> <p>Examination to identify or exclude cytological abnormalities for the purpose of diagnosis</p> <p>Nuclei Cytoplasm Keratinising cells</p> <p>Nuclei Neutrophilic &amp; eosinophilic granules Red Blood Cells</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p><u>Preparation/centrifugation</u> using: HIS-LP-Fluid HIS-Cent HIS-LP-Cytospin and Cytospin4, centrifuge</p> <p><u>Staining</u> using: HIS-LP-ngstaining and Sakura staining machine and stains as appropriate:</p> <p>Papanicolaou stain</p> <p>May Grunwald Giemsa (MGG)</p>
<p>Sentinel lymph node imprints</p>	<p>Nuclei Neutrophilic &amp; eosinophilic granules Red Blood Cells</p>	<p>Rapid Diff using: HIS-LP-Sentinel</p>
<p>Slides prepared in house from samples listed above</p>	<p>Morphological assessment and interpretation/diagnosis</p>	<p><u>Macroscopic description and Microscopy (qualitative analysis)</u> using: HIS-LP-CutupGuide and microscopes Leica DMRB Nikon Eclipse 80i Nikon Eclipse Ci-E (with and without teaching head) Nikon Eclipse E400</p>

END