

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



8849

Accredited to
ISO 15189:2022

Shrewsbury and Telford Hospital NHS Trust

Issue No: 008 Issue date: 21 November 2025

Department of Pathology
Royal Shrewsbury Hospital
Mytton Oak Road
Shrewsbury
SY3 8XQ

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Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details: Department of Cellular Pathology	Activity
Address: Department of Cellular Pathology Royal Shrewsbury Hospital Mytton Oak Road Shrewsbury SY3 8XQ	Local contact Victoria Banton
	Histopathology Rapid frozen section for intra-operative diagnosis Diagnostic Cytopathology

On / off site activities performed away from the locations listed above:

Location details	Activity
Mortuary Royal Shrewsbury	Victoria Banton (as above)
	Body Store and Mortuary
Mortuary Princess Royal Hospital	Victoria Banton (as above)
	Body Store
Radiology Head & Neck Clinic Princess Royal Hospital	Victoria Banton (as above)
	FNA material/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
<p>HUMAN TISSUES AND FLUIDS</p> <p>Tissue samples: Formalin fixed, fresh and frozen, including Bone Marrow trephines Non-gynae cytology cell blocks</p>	<p><u>Histopathology</u></p> <p>Preparation and examination of tissue samples to identify or exclude morphological & cytological abnormalities</p> <p>Specimen dissection and biopsy transfer</p> <p>Decalcification of bony samples prior to histopathological examination</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Macroanalysis and dissection</u> Manual method using: HISurgCutUp HISBMSCutUp HISCutUP CPPrintMate TURPSampling ThermoFisher PrintMate</p> <p><u>Decalcification</u> Manual method using: HISDecal</p> <p><u>Tissue Processing</u> Automated method using: HISProcessing HISExcelcior and: Thermo Fisher Excelcior</p> <p><u>Embedding</u> Manual method using: HISEmbed and: Sakura Tissue Tek V Thermo Scientific Histostar Embedding centre</p> <p><u>Microtomy</u> Manual method using: HISMicrotomy HISMegaBlock HISSpares and: Leica RM2235</p>



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)
Frozen tissue	Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)	
	Identification of nuclei, cell cytoplasm and connective tissue in cells and tissues for the purposes of clinical diagnosis using Haematoxylin and Eosin	<u>Rapid frozen section</u> Cryotomy and manual staining method using: HISStainRapidHE and: Leica CM 1860
Formalin fixed, paraffin embedded (FFPE) tissue	Identification of nuclei, cell cytoplasm and connective tissue in cells and tissues for the purposes of clinical diagnosis using Haematoxylin and Eosin	<u>Routine Haematoxylin & Eosin (H&E) staining and coverslipping</u> Automated method using: HISAutoStain HISCoverslip and: Leica Autostainer XL Leica Coverslipper CV5030
Formalin fixed, paraffin embedded (FFPE) tissue	Detection of the following:	<u>Special staining</u> Manual methods using: HISSpecial CPSSControls and the following stains:
	Acid and sulphated mucins	Alcian Blue Technique using HISStainAB
	Acid and neutral mucins	(Diastase) Alcian Blue PAS Using HISStainABPAS
	Neutral mucins and fungi	(Diastase) Periodic Acid Schiff's HISStainDPAS
	Differentiating between haemopoetic cells	Giemsa HISStainGIEM



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>FFPE tissue (cont'd)</p>	<p><u>Histopathology</u> (cont'd)</p> <p>Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)</p> <p>Detection of the following: (cont'd)</p> <p>Amyloid</p> <p><i>Helicobacter pylori</i> identification</p> <p>Differentiating between Gram positive and Gram negative microorganisms</p> <p>Fungi</p> <p>All tissue structures</p> <p>Collagen and smooth muscle</p> <p>Connective tissue and fibrin</p> <p>Elastic fibres</p> <p>Copper associated protein</p> <p>Basement membranes</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Special staining</u> (cont'd)</p> <p>Congo Red HISStainCR</p> <p>Giemsa for Helicobacter HISStainGiemsaHP</p> <p>Gram with Twort Counterstain for Bacteria HISStainGrmTwt</p> <p>Grocott's Method for Fungi HISStainGroc</p> <p>Haematoxylin and Eosin Stain HISStainHE</p> <p>Masson Trichrome HISStainMasTri</p> <p>Martius, Scarlet, Blue (MSB) HISStainMSB</p> <p>Miller's Elastin Stain HISStainMillers</p> <p>Orcein for Copper Associated Protein HISStainOrcein</p> <p>PA Silver HISStainPASilver</p>



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> (cont'd) Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)
FFPE tissue (cont'd)	Detection of the following: (cont'd)	<u>Special staining</u> (cont'd)
	Haemosiderin	Perls Prussian Blue for Ferric Iron HISStainPerls
	Reticulin fibres	Gordon & Sweet's Method for Reticulin HISStainRetic
	Mast cells	Toluidine Blue for Mast Cell Granules HISStainTolBlue
	Connective tissue	Van Gieson Method HISStainVG
	Calcium salts	Von Kossa HISStainVKossa
	Atypical Mycobacterium	Wade Fite HISStainWF
	Spirochaetes	Warthin- Starry for Spirochaetes HISStainWarStar
	Acid fast bacilli, e.g. <i>M. tuberculosis</i>	ZN Stain for Acid Fast Bacilli Using HISStainZN



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>FFPE tissue</p>	<p><u>Histopathology</u> (cont'd)</p> <p>Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)</p> <p>Detection of the following:</p> <p>Pan cytokeratin</p> <p>Germ tumours</p> <p>Anaplastic lymphoma kinase</p> <p>Prostate grading</p> <p>Colon adenocarcinoma</p> <p>Mantle zone B lymphocytes, interfollicular T lymphocytes</p> <p>Germinal centre B lymphocytes</p> <p>Epithelial cell types, basal cell carcinoma</p> <p>Malignant epithelial cells</p> <p>Glandular cells</p> <p>Parafollicular C cells thyroid</p> <p>Mesothelioma marker</p> <p>Langerhan's cells, interdigitating reticulum cells</p> <p>T lymphocytes</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Immunohistochemistry</u> Automated methods using: IPBondMax and IPPrimaryABS and: Leica Bond III Immunostainer and the following antibodies</p> <p>AE1/AE3</p> <p>AFP</p> <p>ALK-1</p> <p>AMACR</p> <p>B-CATENIN</p> <p>Bcl-2</p> <p>Bcl-6</p> <p>Ber-EP4</p> <p>CA125</p> <p>CAM 5.2</p> <p>Calcitonin</p> <p>Calretinin</p> <p>CD1a</p> <p>CD3</p>



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> (cont'd) Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)
FFPE tissue (cont'd)	Immunohistochemistry to detect the following: (cont'd)	<u>Immunohistochemistry</u> (cont'd)
	T lymphocytes (helper and inducer)	CD4
	Germinal centre T lymphocytes, some B	CD5
	Suppressor/ cytotoxic T cells	CD8
	Mature B lymphocytes, renal cell carcinoma	CD10
	Hodgkin and Reed Sternberg	CD15
	B lymphocytes	CD20
	B lymphocytes, some T lymphocytes	CD23
	Hodgkin and Reed Sternberg cells. Plasma cells	CD30
	Endothelial cells, plasma cells, activated B and T cells	CD31
	Endothelial cells, fibroblasts, haemopoietic precursor cells	CD34
	Peripheral nerves, NK cells, neuroendocrine differentiation	CD56
	Macrophages, monocytes, granulocytes	CD68
	Mast cells, marker for GIST	CD117



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> (cont'd) Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)
FFPE tissue (cont'd)	Immunohistochemistry to detect the following: (cont'd) Plasma cells, differentiation of B lymphocytes Intestinal epithelial cells Adenocarcinoma, epithelial cells of the glandular lumen Neuroendocrine cells and tumours Basal cells, stratified squamous epithelia Simple glandular and transitional epithelia Epithelia, thyroid papillary carcinoma Gastrointestinal epithelia Cytomegalovirus Mantle cell lymphoma Normal & Abnormal epithelial cells Smooth and striated muscle cells Normal duct epithelial cells, ductal carcinoma	<u>Immunohistochemistry</u> (cont'd) CD138 CDX2 CEA Chromogranin A CK5/6 CK7 CK19 CK20 CMV Cyclin D1 Cytokeratin HMW (HMWCK) Desmin E-Cadherin



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FFPE tissue (cont'd)	Immunohistochemistry to detect the following: (cont'd) Glandular and ductal epithelia Cell nuclei expressing oestrogen, normal glands and neoplastic cells Papillary carcinoma differentiation Identifies breast carcinomas and urothelial carcinomas Placental trophoblasts Melanoma, melanocyte differentiation Sertoli cells, sex chord stromal tumour Marker of proliferation B and T lymphocytes Normal, activated and neoplastic melanocytes Multiple myeloma oncogene Thyroid, renal, Mullerian and thymic tumours Normal proliferating cells, basal cells	<u>Immunohistochemistry</u> (cont'd) EMA ER Galactin-3 GATA-3 HCG HMB45 Inhibin Ki67 LCA Melan-A MUM-1 PAX8 p63



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Slides prepared in-house from sample types listed above</p> <p>Fresh, frozen tissue of renal, skin and mucosal biopsies</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)</p> <p>Morphological assessment and interpretation/diagnosis</p> <p><u>Direct Immunofluorescence</u></p> <p>Identification of antibodies in various autoimmune diseases</p> <p>Gamma chains of human IgG</p> <p>Mu chain of human IgM</p> <p>Alpha chains of human IgA</p> <p>Native C3</p> <p>Conjugated antibodies</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Microscopy (qualitative analysis)</u></p> <p>In-house procedures: CPConsReporting CPLightMicroSOP using: Laborlux S Leica DM2000 Leica DM3000 Leica Diaplan Nikon Eclipse NiU 401 Nikon Eclipse 80i Nikon Eclipse E400 Olympus BX51</p> <p>Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Immunofluorescence and fluorescent microscopy</u></p> <p>Manual in house procedure using: DIFProcedure DIFPipette</p> <p>IgG/ FITC</p> <p>IgM/ FITC</p> <p>IgA/ FITC</p> <p>C3/ FITC</p> <p>C1q/FITC</p>



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Slides prepared in-house from sample types listed above</p> <p>Body fluids: Cerebrospinal fluid (CSF) Urine General body fluids Bronchial brushings & washings Sputum</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)</p> <p>Morphological assessment and interpretation/diagnosis</p> <p><u>Examination of non-gynaecological specimens for the purpose of clinical diagnosis</u></p> <p>The examination of body fluid/ FNA samples to exclude or identify morphological and cytological abnormalities</p> <p>Staining of slides prepared as above for examination of body fluid/ FNA samples to exclude or identify morphological and cytological abnormalities</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Fluorescent microscopy (qualitative analysis)</u> Following in-house procedures:</p> <p>DIFPhoto using Leitz Laborlux S with UV lamp housing</p> <p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>Preparation of direct smears and cytospin slides using :</p> <p>CYTNGSpecs CYTFluids CYTBronch CYTCSF CYTEUS&EBUS CYTUrine CYTSputum CYTHistopaque CYTImmuno and Class II Telstar Bio II-A Microbiological safety cabinet Thermo Fisher Cytospin 4</p> <p>Automated Papanicolaou staining method using :</p> <p>CYTPapStain and Thermo Fisher Raymond Lamb Stainmate Myreva SS-30 staining machine CYTPAPSTAIN</p>



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Body fluids: Cerebrospinal fluid (CSF) Urine General body fluids Bronchial brushings & washings Sputum (cont'd)</p> <p>Slides prepared in-house from sample types listed above</p>	<p><u>Non-gynaecological specimens</u> (cont'd)</p> <p>Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)</p> <p>Staining of slides prepared as above for examination of body fluid/ FNA samples to exclude or identify morphological and cytological abnormalities.</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>Manual Romanowski type stain method following : CYTDiffQuick</p> <p><u>Microscopy (qualitative analysis)</u> In-house procedures: CPConsReporting CYTNGReporting CPLightMicroSOP using: Leica DM2000 Nikon Eclipse NiU 401 Nikon Eclipse 80i Nikon Eclipse E400</p>
END		