


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> MEDICAL 8544</p> <p>Accredited to ISO 15189:2012</p>	<p><b>Lancashire Teaching Hospitals NHS Foundation Trust</b></p> <p>Issue No: 009 Issue date: 01 March 2024</p>	
	<p>Department of Cellular Pathology Royal Preston Hospital Sharoe Green Lane Fulwood Preston PR2 9HT</p>	<p>Contact: Carron Wilson Tel: +44 (0) 1772 523108 E-Mail: carron.wilson@lthtr.nhs.uk Website: <a href="http://www.lancsteachinghospitals.nhs.uk">http://www.lancsteachinghospitals.nhs.uk</a></p>
<p>Testing performed at the above address only</p>		

### 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>Fixed, fresh and frozen tissue including excisional and incisional biopsies and surgical resection specimens</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Specimen Dissection</u></p> <p>Specimen Decalcification and Softening SP300 Microwave Fixation SP360 Cutting Calcified Bone SP381 Writing Up at Cut Up SP386 Slicing Mastectomy Specimens for Fixation SP520 Faxitron Operation SP603 Cut Up of Upper GI SP417 Cut Up of Cystectomies SP419 Cut Up of Breast SP420 Cut Up of Head and Neck SP422 Cut Up of Placenta SP424 Cut Up of Colorectal Cancer SP425 Cut Up of GI (non-neoplastic) SP426 Cut Up of Testis SP430 Cut Up of Gynae SP433 Cut Up of Lympho-reticular SP435 Cut Up of Prostatectomy SP437 Cut Up of Skin SP513 Cut Up of RPOC SP514 Cut Up of Urogenital SP591 Cut Up of Endocrine SP635 Cut Up of Kidney SP644 Cut Up of Femoral Heads/Bone SP654 Smalls SP681</p>



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<p><b>HUMAN TISSUES AND FLUIDS</b></p> <p>Fixed, fresh and frozen tissue including excisional and incisional biopsies and surgical resection specimens</p> <p>Formalin- fixed and processed tissue (to paraffin wax) including excisional and incisional biopsies and surgical resection specimens</p> <p>Formalin- fixed paraffin embedded tissue blocks</p> <p>Frozen Tissue</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Tissue Processing</u> Peloris III Tissue Processor SP331</p> <p><u>Tissue Embedding</u> Arcadia Histocore embedding centre and cold plate x 2 Leica EG1150 H SP309 Embedding</p> <p><u>Tissue Sectioning</u> General Laboratory: 1. Leica RM2235 Neuropathology: 1. Leica RM2235 2. Leica RM2255 SP296 TP03 Microtomy Immunohistochemistry: 1. Leica RM2245 2. Leica RM2235</p> <p><u>Tissue Sectioning</u> CM1950 Leica Cryostat SOP SP 105 Using the cryostat</p>



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HUMAN TISSUES AND FLUIDS	Histological and Cytological examinations to assist in clinical diagnosis	Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:
Formalin- fixed paraffin embedded tissue sections on microscope slides	For demonstration of general tissue architecture including basophilic and eosinophilic structures	<u>Haematoxylin and Eosin Staining</u> Manual Technique SP10 Automated Technique using Leica CV5030 Autostainer SP376 TP19 Stainer/Coverslipper TP42 Histology IQC
Frozen Tissue	For demonstration of general tissue architecture including basophilic and eosinophilic structures	<u>Haematoxylin and Eosin Staining</u> Manual Technique SP10 <u>TP11 Routine use of the Cryostat</u>
Formalin- fixed paraffin embedded tissue sections on microscope slides	For demonstration of:	<u>Special Stains</u> Manual Techniques TP48, TP49 +/- Automated Technique using Ventana Benchmark TP43 and the following SOPs( M- Manual, A- Automated
	Acid Mucopolysaccharides	SP2 (M) Alcian Blue
	Amyloid	SP4 (M) Congo Red Improved Method
	Elastic tissue fibres	SP6 (M) Miller's Elastic Van Gieson (EVG)
	Gram positive and Gram negative organisms	SP48 (M) Gram-Twort
	Fungi	SP9 (A) Grocott- Gomori Methenamine Silver
	General tissue architecture including basophilic and eosinophilic structures	SP11 (M) Rapid H&E



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Formalin- fixed paraffin embedded tissue sections on microscope slides</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>For demonstration of:</p> <p>Melanin pigment</p> <p>Connective tissue</p> <p>Fibrin</p> <p>Hepatitis B surface antigen</p> <p>PAS positive structures e.g. glycogen, cells of pituitary</p> <p>Haemosiderin and ferric iron</p> <p>Reticulin fibres</p> <p>Metachromatic substances</p> <p>Calcium</p> <p>Tubercle bacilli (TB)</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for: <u>Special Stains</u></p> <p>Manual Techniques TP48, TP49 +/- Automated Technique using Ventana Benchmark and the following SOPs:</p> <p>SP16 (M) Masson Fontana</p> <p>SP54 (M) Masson Trichrome</p> <p>SP18 (M) Martius Scarlet Blue (MSB)</p> <p>SP67 (M) Orcein</p> <p>SP21 (MA) Periodic Acid Schiff (PAS) +/- Diastase</p> <p>SP23 (A) Perl's Prussian Blue</p> <p>SP26 (A) Gordon &amp; Sweet's Reticulin Method</p> <p>SP88 (M) Toluidine blue</p> <p>SP89 (M) Von Kossa</p> <p>SP28 (M) Ziehl- Neelsen (ZN)</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Formalin- fixed paraffin embedded tissue sections on microscope slides</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>For demonstration of:</p> <p>Epithelial cells</p> <p>Hepatocytes and germ cell tumour</p> <p>Lymphoma</p> <p>Secondary amyloid</p> <p>Prostate</p> <p>Scattered T cells in germinal centres and mantle zone B cells- follicular lymphoma</p> <p>Lymphoma</p> <p>Mesangium or glomerular basement membrane in e.g. SLE</p> <p>Renal complement</p> <p>Clear cell v renal cell carcinoma</p> <p>GI tumours/ Pancreas</p> <p>Thyroid C cells and carcinoma</p> <p>Smooth muscle and sarcoma</p> <p>Mesothelial and lung tumours</p> <p>Cytokeratin low MWT</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Immunohistochemistry</u> using Leica Bond III Immunostainer SP605, SP615 and the following antibodies:</p> <p>AE1/AE3</p> <p>Alphafetoprotein</p> <p>ALK1</p> <p>Amyloid A</p> <p>34 BE12</p> <p>BCL2</p> <p>BCL6</p> <p>C1q</p> <p>C3c</p> <p>CAIX</p> <p>Ca19-9</p> <p>Calcitonin</p> <p>CALDESMON</p> <p>CALRETININ</p> <p>CAM 5.2</p>



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HUMAN TISSUES AND FLUIDS  Formalin- fixed paraffin embedded tissue sections on microscope slides	Histological and Cytological examinations to assist in clinical diagnosis  For demonstration of:  B Cells Ewing's sarcoma GIST tumours B Lymphocyte differentiation Epithelial malignancy Prostate Ovarian Ductal and glandular epithelium Ovarian Mantle cell lymphoma Smooth and striated muscle GIST tumours Epithelial cell carcinoma Epithelial cells Breast Ca diagnosis Breast Ca	Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:  <u>Immunohistochemistry</u> using Leica Bond III Immunostainer SP605, SP615 and the following antibodies:  CD79a CD99 (MIC2) CD117 (C-KT) CD138 CEA CK5/6 CK7 CK19 CK20 CYCLIN D1 DESMIN DOG-1 E-CADHERIN EMA GATA3 GCDFFP-15 Gross cystic disease fluid protein



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Formalin- fixed paraffin embedded tissue sections on microscope slides</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>For demonstration of:</p> <p>Breast Herceptin receptor</p> <p>Proteins that are expressed in the nucleus of normal proliferating cells</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Immunohistochemistry</u> using Roche Benchmark Ultra Immunostainer and the following antibodies: SOP SP 630. SP 631</p> <p>Her-2</p> <p>MMR Panel: MLH-1, PMS-2, MSH-2, MSH-6 plus negative control</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Formalin- fixed paraffin embedded tissue sections on microscope slides</p> <p>Frozen Sections</p> <p>Frozen Sections</p> <p>Frozen Sections</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>For demonstration of:</p> <p>Plaques and tangles</p> <p>Myelin</p> <p>Myelin and other CNS structures</p> <p>Neurones</p> <p>Mitochondrial complexes</p> <p>Lipids</p> <p>For demonstration of:</p> <p>Lysosomes in muscle</p> <p>Mitochondrial complexes</p> <p>Mitochondrial complexes</p> <p>Fibre typing</p> <p>Fibre typing</p> <p>Fibre typing</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Neuropathology</u> Manual Staining with reference to: TP24 Nerve, TP25 Pituitary, TP48 Neuro special stains</p> <p>SP3 Bielschowsky Stain- modified</p> <p>SP14 Luxol Fast Blue</p> <p>SP15 Luxol fast Blue H&amp;E</p> <p>SP19 Nissl Demonstration</p> <p>SP42 Gomori Trichrome Stain</p> <p>SP27 Sudan Black for Lipids</p> <p><u>Neuropathology</u> Enzyme Histochemistry using manual staining with reference to the following antibodies: TP23 Muscle</p> <p>SP66 Acid Phosphatase</p> <p>SP38 Cytochrome Oxidase</p> <p>SP41 Cytochrome Oxidase and SDH</p> <p>SP46 Myoadenylate Deanimase</p> <p>SP57 Myosin ATPase</p> <p>SP56 NADH for Type 1 Fibres</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Frozen Sections</p> <p>Formalin- fixed paraffin embedded tissue sections on microscope slides</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>For demonstration of:</p> <p>Phosphorylase activity</p> <p>Stain- glycogen</p> <p>Phosphofructokinase and aldolase activity</p> <p>SDH Activity</p> <p>Myelin</p> <p>Connective tissue</p> <p>Myelin</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Neuropathology</u> Enzyme Histochemistry using manual staining with reference to the following antibodies:: TP23 Muscle</p> <p>SP59 Phosphorylase</p> <p>SP61 PAS for Muscle Biopsies</p> <p>SP64 Phosphofructokinase and Aldolase</p> <p>SP66 Succinic Dehydrogenase</p> <p>SP78 Kultschitsky</p> <p>SP79 Goldner's Trichrome</p> <p>SP80 Solochrome Cyanine</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Frozen Sections</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>For localisation of proteins in muscle</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Neuropathology</u> Immunohistochemistry using SP90 manual staining with reference to the following antibodies:</p> <p>Adhalin</p> <p>B Dystroglycan - frozen</p> <p>Dysferlin</p> <p>Dystrophin 1</p> <p>Dystrophin 2</p> <p>Dystrophin 3</p> <p>Emerin</p> <p>Merosin 300</p> <p>Spectrin</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Surgical Biopsies</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Electron Microscopy</u> Electron Microscopy (EM) Preparation with reference to the following:</p> <p>SP-451 Collecting Specimens for EM</p> <p>SP-473 Processing EM Tissues</p> <p>SP-404 Embedding EM Specimens</p> <p>Leica EM UC7 R Ultra Microtome SP-403</p> <p>Jeol Jem 1400 Electron Microscope SP-481</p> <p>SP-622 Training Log for ICC-EM</p> <p>SP-413 Filing of EM Grids, Blocks and Slides</p> <p>TP-17 Operation of Ultramicrotome</p> <p>TP-52 Embedding and Processing</p>





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<p>HUMAN TISSUES AND FLUIDS</p> <p>Surgical Biopsies</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>Examination of tissues to identify or exclude ultrastructural morphological abnormalities for the purpose of diagnosis</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Electron Microscopy</u> Electron Microscopy Viewing with reference to the following:</p> <p>SP-481 Operation of Transmission Electron Microscope (including reporting)</p> <p>SP-624 Electron Microscopy Checking</p> <p>TP-16 Operation of Transmission Electron Microscope</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Diagnostic Cytology Samples including fluids, FNAs and Brushings</p> <p>Alcohol- Fixed Cytological Preparations on Microscope Slides</p> <p>Alcohol- Fixed Cytological Preparations on Microscope Slides</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>Differentiation of cell types and identification of normal and abnormal cells</p> <p>Differentiation of cell types and identification of normal and abnormal cells</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Diagnostic Cytology</u></p> <p>Preparation of NG cytology samples</p> <p>Preparation of slides for staining using Shandon Cytospin or smear</p> <p>SP 215 Megafuge SP 239 Specimen reference sheet SP 176 Bronchial Lavage SP 177 Bronchial Wash SP 188 CSF SP 191 Cyst Fluid SP 210 FNA SP 219 Lap Peritoneal Wash SP 313 Serous Fluid SP 343 Sputum SP 352 Urine SP 629 Sputum Diff Count SP 629 Synovial fluid SP338 Slide spread methodSP195 Cytospin Method</p> <p><u>Diagnostic Cytology</u> <u>Staining NG Cytology slides</u> SP511 Staining of Cytological Preparations using Stainmate for: TP27 Non Gynae Cytology Prep</p> <p>Haematoxylin and Eosin Stain</p> <p>Papanicolaou Stain</p>



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issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Lancashire Teaching Hospitals NHS Foundation Trust**  
**Issue No: 009 Issue date: 01 March 2024**

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p><b>HUMAN TISSUES AND FLUIDS</b></p> <p>Alcohol- Fixed Cytological Preparations on Microscope Slides</p> <p>Alcohol- Fixed Cytological Preparations on Microscope Slides</p> <p>Air- Dried Cytological Preparations on Microscope Slides</p> <p>Diagnostic Cytology Samples including fluids, FNAs and Brushings</p> <p>Stained Tissue Sections/ Stained Cytological Preparations including Histology, Neuropathology and Diagnostic Cytology</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>Differentiation of cell types and identification of normal and abnormal cells</p> <p>Differentiation of cell types and identification of normal and abnormal cells</p> <p>Differentiation of cell types</p> <p>Microscopic identification of cellular structures and abnormality for the purpose of clinical diagnosis.</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Myreva Linear Stainer SOP SP 660</u> Haematoxylin and Eosin Stain</p> <p>Papanicolaou Stain</p> <p><u>Diagnostic Cytology</u> SP607 Giemsa Rapid Stain Kit</p> <p><u>Diagnostic Cytology</u> SP347 Preparing Thromboplastin Clots</p> <p><u>Consultants and BMS Reporting</u> Reporting of Cellular Pathology Samples SP 661 Using the Consultant Workplace in SWL to report Cellular Pathology Specimens</p>
END		