


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL 9805</p> <p>Accredited to ISO 15189:2012</p>	Sheffield Teaching Hospitals NHS Foundation Trust	
	Issue No: 002 Issue date: 11 January 2019	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant): Supported by: Tissue Dissection: Manual methods using documented procedures CRHHIS-HIST006 and 007 Cryotomy: Thermo Cryostar cryostat CRHHIS-HIST030 Decalcification: Manual using CRHHIS-HIST009 Tissue Processing: Using the Leica ASP300 and Thermo Excelsior Embedding: CRHHIS-HIST-013 Using Leica EG1150 and Thermo Histostar Section Cutting: CRHHIS-HIST060 Using Leica RM2215, 2235, 2255 microtomes



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Fresh Skin, oral mucosa Frozen tissue	Identification of antibodies to IgA, IgG, IgM, C3 and fibrinogen	Direct immunofluorescence staining with antibodies followed by fluorescent microscopy SOP: CRHHIS-HIST027
HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks	Identification of nuclei, cell cytoplasm and connective tissues in cells and tissues	Haematoxylin and Eosin staining- Manual and automated methods- Rapid H&E stain for frozen sections: Leica ST5020 Stainer Leica Coverslipper CV5030 CRHHIS-HIST049
FFPE/Non-gynae cytology cell blocks	Special staining of histopathology examinations to assist in detection of clinical abnormalities:	Special staining: In-house manual documented procedures based on manufacturers' manuals as relevant
	Acid and Neutral Mucopolysaccharides	Alcian Blue/PAS
	Acid Mucopolysaccharides	Alcian Blue
	Amyloid	Congo Red
	Mucins	Diastase Alcian Blue PAS/ Diastase PAS
	Morphological inspection of blood cells	Diff Quick
	Helicobacter pylori, eosinophils, mast cell granules and parasites	Modified Giemsa
	Bacterial cells	Gram Twort
	Fungi and Basement membranes	Grocotts Methenamine Silver
	Melanin	Masson Fontana
	Collagen and connective tissues	Masson trichrome



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	Melanin pigment removal	Melanin Bleach
	Elastin and collagen fibres Fibrin Deposits	Millers Elastic Van Gieson (EVG) MSB
HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE/Non-gynae cytology cell blocks	Special staining of histopathology examinations to assist in detection of clinical abnormalities:	Special staining In-house manual documented procedures based on manufacturers' manuals as relevant Using CRHHIS-HIST022
	Hep B surface antigen, elastin and copper protein	Orecin (Shikata)
	Differentiate cells in cytology preparations	Papanicolaou
	Basement membranes, neutral mucins, fungi, glycogen	Periodic Acid Schiff (PAS)
	Fungi	PAS for fungi
	Iron/Haemosiderin	Perl's Prussian Blue
	Reticulin	Reticulin
	Amyloid	Sirius Red
Frozen sections only	Neutral triglycerides and lipids	Oil Red O
	Heparin Rich mast cells	Toluidine Blue
	Calcium Salts	Von Kossa
	Acid fast Bacilli	Wade Fite
	Spirochetes	Warthin Starry
	Acid Fast Bacilli	Ziehl-Neelson



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>FFPE/Non-gynae cytology cell blocks</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p><u>Immunohistochemistry examination activities for detection of</u> (cont'd):</p> <p>Squamous and columnar epithelium and tumour identification</p> <p>Lymphocytes, follicular lymphomas, lymphoproliferative disease</p> <p>Epithelial cells, adenocarcinoma, oesophageal carcinoma, skin carcinomas</p> <p>Colon mesothelial, nerve and reticulum cells. Lung adenocarcinoma</p> <p>Epithelial derived tissue</p> <p>Germinal centre B Cells, Burkitt lymphoma, follicular lymphomas</p> <p>Mature granulocytes, mononuclear Hodgkins cells, Reed-Sternberg cells</p> <p>B-cell lineage, neoplasms of B cells</p> <p>T cells in spleen, lymph, thymus and tonsil tissue. T cell phenotype in lymphoproliferative disorders</p> <p>Reed-Sternberg Cells, anaplastic large-cell lymphoma</p> <p>Endothelial cells, vascular disorders</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunohistochemistry Microscopic examination supported by in-house documented procedures based on Dako Auto immunostainer and DAKO PT link machines as relevant: CRHHIS-HIST042</p> <p>AE1/AE3</p> <p>BCL-2</p> <p>BEREP4</p> <p>Calretinin</p> <p>CK8/18</p> <p>CD10</p> <p>CD15</p> <p>CD20</p> <p>CD3</p> <p>CD30</p> <p>CD31</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE/Non-gynae cytology cell blocks	<u>Immunohistochemistry examination activities for detection of (cont'd):</u>	Immunohistochemistry Microscopic examination supported by in-house documented procedures based on Dako Auto immunostainer and DAKO PT link machines as relevant: CRHHIS-HIST042
	Capillaries and vascular and lymphatic tumours	CD34
	Thymocytes and T Helper cells, anaplastic large-cell lymphomas, mycosis fungoides and peripheral T-cell lymphoma	CD4
	T cells, thymic lymphocytes, mast cells and tumour cells of lymphoid origin	CD45
	Natural killer cells, NK-like T cells, neural/neuroendocrine tissues	CD56
	Mononuclear phagocytes, neoplasms of the myeloid and macrocyte/monocyte origin	CD68 (KP1)
	Monocyte/macrophage cells, AML and histocytic sarcoma	CD68 (PGM1)
	B Cells, B cell neoplasms	CD79a
	Cytotoxic/suppressor T cells	CD8
	Chromogranin A in endocrine cells, neuroendocrine derived tumours	Chromogranin
	Gastric and intestinal epithelium, urothelium and Merkel cells	CK20



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>FFPE/Non-gynae cytology cell blocks</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Immunohistochemistry examination activities for detection of (cont'd):</u></p> <p>Prostate glands, stratified squamous epithelia and complex epithelia</p> <p>Glandular and transitional epithelial cells, carcinomas of various sites</p> <p>Smooth and striated muscle cells, mesothelial cells</p> <p>Epithelial cells, carcinoma of the breast</p> <p>Epithelial cells, epithelial neoplasia, adenocarcinomas</p> <p>Oestrogen receptor status of breast cancer tissues, nuclei of cells containing ER</p> <p>Ovarian Tumours, gonadal elements</p> <p>Proliferating cells, Ki67 antigen in cells</p> <p>Melanocytes, melanomas</p> <p>Prostate adenocarcinoma</p> <p>Basal / Squamous cells</p> <p>Basal/myoepithelial/squamous 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>Immunohistochemistry Microscopic examination supported by in-house documented procedures based on Dako Auto immunostainer and DAKO PT link machines as relevant: CRHHIS-HIST042</p> <p>CK5/6</p> <p>CK7</p> <p>Desmin</p> <p>E-Cadherin</p> <p>EMA</p> <p>ER</p> <p>Inhibin</p> <p>KI67</p> <p>MEL-A</p> <p>P504S</p> <p>P40</p> <p>P63</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>FFPE/Non-gynae cytology cell blocks</p> <p>Slides produced from processes listed above</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Immunohistochemistry examination activities for detection of (cont'd):</u></p> <p>Progesterone receptors</p> <p>Prostatic epithelium, prostatic adenocarcinoma</p> <p>Epidermal nerves and melanocytes, S100 positive neoplasms</p> <p>Smooth muscle cells, myofibroblasts and myoepithelial cells</p> <p>Neuroendocrine cells</p> <p>Type II cells and Clara cells of the lung and follicular cells of the thyroid</p> <p>Microscopic Examination for the purposes of clinical 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>Immunohistochemistry Microscopic examination supported by in-house documented procedures based on Dako Auto immunostainer and DAKO PT link machines as relevant: CRHHIS-HIST042</p> <p>PR</p> <p>PSA</p> <p>S100</p> <p>SMA</p> <p>SYNAP</p> <p>TTF1</p> <p><u>Interpretive Microscopy (qualitative analysis)</u></p> <p>CRH-PATH001 and CRH-PATH018 Light microscopy using: Nikon microscopes</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Body fluids, Aspirates, FNA, brushings, washings</p> <p>Slides produced from processes listed above</p>	<p><u>Cytopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Detection of abnormal cells</p> <p>Microscopic Examination for the purposes of clinical 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>Using Leica stainer and cytospin stains used are PAP, H%E and Romanowsky -SOP: CHRHI-HIST022</p> <p><u>Interpretive Microscopy (qualitative analysis)</u> CRH-PATH001 and CRH-PATH018 Light microscopy using: Nikon microscopes</p>
END		