


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>UKAS</b> MEDICAL <b>8818</b>  Accredited to ISO 15189:2012	<b>Guy's and St. Thomas' NHS Foundation Trust</b>	
	Issue No: 004 Issue date: 02 September 2021	
	<b>Department of Histopathology</b> Sydney Street London SW3 6NP United Kingdom	<b>Contact: Pratibha Shah</b> Tel: +44 (0) 207 351 8427 E-Mail: pratibha.shah@rbht.nhs.uk Website: www.rbht.nhs.uk
Testing performed by the Organisation at the locations specified below		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details		Activity	Location code
Royal Brompton Hospital Sydney Street London SW3 6NP	<b>Contact as above</b>	Histology Immunocytochemistry Cytology	RBH
Harefield Hospital Hill End Road Harefield UB9 6JH	<b>Contact as above</b>	Histology-Frozen sections and urgent biopsies only	HH



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code	
<p><b>HUMAN BODY FLUIDS AND TISSUES</b></p> <p>Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p> <p>Examination and preparation of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>Macroscopic and Microscopic examination supported by in-house documented procedures based on equipment manuals as relevant</p>	<p>RBH HH</p>	
		<p>HISTINST6 - Reception of Histology and Cytology Specimens at RBH</p> <p>HISTINST7 - Reception of Histology and Cytology specimens at Harefield</p> <p><u>Tissue processing and Embedding</u></p> <p>HISHSOP2 - Tissue Processing using tissue processor</p> <p>HISHSOP3 - Embedding Process ASP6025 – Leica - HISTEQINST4, Tissue Processor VIP – Sakura - HISTEQINST10 – one each at both sites.</p> <p>Histostar Thermo Scientific - HISTEQINST11</p>		<p>RBH</p>
		<p>Leica Histocore Peloris 3 Tissue Processor – HISTEQINST57</p> <p><u>Microtomy using</u></p> <p>Leica RM 2235 and RM2035 - HISTEQINST3</p> <p>HISHSOP4 - Microtomy Procedure</p>		<p>RBH HH</p>
		<p><u>Specimen dissection and Decalcification</u></p> <p>HISHSOP1 Cut-up using AFOS downdraft benches</p> <p>HISTINST13-Decalcification procedure</p>		<p>RBH</p>



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	Macroscopic and Microscopic examination supported by in-house documented procedures based on equipment manuals as relevant	
Biopsies and tissue samples (Urgent frozen section reporting)	Morphological assessment and interpretation/diagnosis	HISHSOP6 - Frozen Section Procedure at Harefield Hospital HISHSOP7 - Frozen Section Procedure at Royal Brompton Hospital Cryotome FSE Thermo Scientific – RBH - HISTEQINST18 Leica CM1860 UV Cryostat - HISTEQINST47-RBH &HH	RBH HH
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens	Routine morphological staining of histopathology examinations to assist in detection of clinical abnormalities:	<u>Haematoxylin and Eosin staining and coverslipping</u> HISTSTAIN14 – Modified Haematoxylin and Eosin for paraffin block (manual and automated) Automated using Gemini stainer HISTEQINST48 for routine staining  HISTSTAIN15 - Haematoxylin and Eosin for frozen sections (Manual only) and leica coverslipper HISTEQINST25	RBH
		<u>Haematoxylin and Eosin staining and coverslipping</u> HISTSTAIN14 – Modified Haematoxylin and Eosin for paraffin block (manual only) HISTSTAIN15 - Haematoxylin and Eosin for frozen sections (manual only) and leica coverslipper HISTEQINST25	HH



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p>	<p>Macroscopic and Microscopic examination supported by in-house documented procedures based on equipment manuals as relevant</p>	
	<p><u>Special staining of histopathology examinations to assist in detection of clinical abnormalities:</u></p>	<p>Special staining using HISHSOP5 - Special Staining Process and individual staining methods with ID codes from HISTSTAIN1 to HISTSTAIN31</p>	
	<p>Acid mucins</p>	<p>HISTSTAIN1- Modified Alcian Blue stain</p>	<p>RBH</p>
	<p>Acid mucins and neutral mucins</p>	<p>HISTSTAIN3- Modified Alcian Blue Periodic Acid Schiff</p>	<p>RBH</p>
	<p>Amyloid</p>	<p>HISTSTAIN4- Modified Alkaline Congo Red for amyloid</p>	<p>RBH</p>
	<p>Diastase digestion</p>	<p>HISTSTAIN6- Diastase Periodic Acid Schiff (DPAS)</p>	<p>RBH</p>
	<p>Elastic</p>	<p>HISTSTAIN7- Modified Alcian Blue Elastic Van Gieson (AB EVG)</p>	<p>RBH</p>
<p>Helicobacter pylori and other organisms</p>	<p>HISTSTAIN9- Modified Giemsa (Modified) for Helicobacter Pylori</p>	<p>RBH</p>	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	Macroscopic and Microscopic examination supported by in-house documented procedures based on equipment manuals as relevant	
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens (cont'd)	<u>Special staining of histopathology examinations to assist in detection of clinical abnormalities:</u> (cont'd)	Special staining using HISHSOP5 - Special Staining Process and individual staining methods with ID codes from HISTSTAIN1 to HISTSTAIN31	
Paraffin section of fixed tissue	Gram stain	HISTSTAIN11- Modified GRAM	RBH
Cytological smear / cyto-centrifuge	Gram Twort	HISTSTAIN12- Modified Gram Twort Staining Method	RBH
	Fungi including Pneumocystis	HISTSTAIN13 - Modified Grocott – Microwave Method	RBH
	Fibrin and connective tissues	HISTSTAIN18- Modified Martius Scarlet Blue for fibrin and connective tissues	RBH
	Argentaffin and melanin	HISTSTAIN19- Modified Masson Fontana	RBH
	Elastic fibres	HISTSTAIN21 - Modified Miller's Elastic Van Gieson (EVG) for elastic fibres	RBH



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p>	<p>Macroscopic and Microscopic examination supported by in-house documented procedures based on equipment manuals as relevant</p>	
	<p><u>Special staining of histopathology examinations to assist in detection of clinical abnormalities:</u> (cont'd)</p> <p>Mucin, glycogen, basement membranes, etc</p>	<p>Special staining using HISHSOP5 - Special Staining Process and individual staining methods with ID codes from HISTSTAIN1 to HISTSTAIN31</p> <p>HISTSTAIN24 - Modified Periodic Acid Schiff for mucin, glycogen, basement membranes</p>	RBH
	<p>Haemosiderin</p>	<p>HISTSTAIN25 - Modified Perl's Prussian Blue for haemosiderin</p>	RBH



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Paraffin section	<u>Special staining of histopathology examinations to assist in detection of clinical abnormalities:</u> (cont'd)	Special staining using HISHSOP5 - Special Staining Process and individual staining methods with ID codes from HISTSTAIN1 to HISTSTAIN31	
	Mycobacteria	HISTSTAIN31 - Modified ZIEHL-NEELSEN STAINING METHOD	RBH
	<u>Immunocytochemistry to detect the following</u>	In-house documented procedures using Leica Bond III HISISOP1 - The Bond III automated ICC procedure IMMHINST4 - Bond III solutions and antibody titres	
	Anaplastic lymphoma kinase (Human p80 protein)	Anaplastic lymphoma kinase receptor (CD246)-ALK1	RBH
	Expression of Alphafetoprotein	Alpha Fetoprotein	RBH
	Mantle zone B lymphocytes & interfollicular T lymphocytes and other rare tumour types	BCL 2	RBH
	Malignant mesothelioma	BAP-1	RBH
	B-catenin protein, binds to cytoplasmic tail of E-cadherin	Beta-Catenin	RBH



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Paraffin section (cont'd)	<u>Immunocytochemistry to detect the following</u> (cont'd)	In-house documented procedures using Leica Bond III HISISOP1 - The Bond III automated ICC procedure IMMHINST4 - Bond III solutions and antibody titres	
	Cell membrane glycoproteins expressed on healthy epithelia and in various carcinomas	Ber-EP4	RBH
	Gastrin releasing peptide (cancers of the lung, colon, stomach, pancreas, breast, and prostate)	Bombesin	RBH
	Special tissue marker for humoral immunity	C4d	RBH
	Calcium binding protein structurally related to S100 and inhibin	Calretinin	RBH
	Glandular cells	CAM 5.2	RBH
	MHC class 1 related cell surface glycoprotein thymic lymphocytes; Langerhan's cells; interdigitating reticulum cells	CD1a	RBH
	T lymphocytes; helper/inducer T lymphocytes	CD3	RBH
	Helper/inducer T lymphocytes	CD4	RBH





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Paraffin section (cont'd)	<u>Immunocytochemistry to detect the following</u> (cont'd)	In-house documented procedures using Leica Bond III HISISOP1 - The Bond III automated ICC procedure IMMHINST4 - Bond III solutions and antibody titres	
	Germinal centre T lymphocytes; B lymphocyte subset	CD5	RBH
	Suppressor/cytotoxic T lymphocytes	CD8	RBH
	Normal, early progenitor lymphoid cells; B lymphocytes in germinal centres	CD10	RBH
	Hodgkin's & Reed-Sternberg cells	CD15	RBH
	B lymphocytes	CD20	RBH
	Follicular dendritic cells	CD21	RBH
	Hodgkin's & Reed-Sternberg cells	CD30	RBH
	Endothelial cells; macrophages	CD31	RBH
	Haemopoietic precursor cells; endothelial cells; fibroblasts; other cell types in various solid tumours	CD34	RBH



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Paraffin section (cont'd)	<u>Immunocytochemistry to detect the following</u> (cont'd)	In-house documented procedures using Leica Bond III HISISOP1 - The Bond III automated ICC procedure IMMHINST4 - Bond III solutions and antibody titres	
	T & B lymphocytes	CD45	RBH
	Peripheral nerves; NK cells; neuroendocrine differentiation	CD56	RBH
	Macrophages; monocytes; granulocytes	CD68	RBH
	Thymic T lymphocytes; islet cells; endothelial cells, Ewing's sarcoma; other rare spindle cell tumours	CD99	RBH
	Carcino-embryonic antigen (Adenocarcinomas, epithelial cells of the glandular lumen)	Carcinoembryonic Antigen (CEA)	RBH
	Chromogranin A (neuroendocrine cells and tumours)	Chromogranin	RBH
	Stratified squamous epithelium, basal cells, mesotheliomas	Cytokeratin 5	RBH
	Normal and neoplastic epithelia	Cytokeratin 7	RBH



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Paraffin section (cont'd)	<u>Immunocytochemistry to detect the following</u> (cont'd)	In-house documented procedures using Leica Bond III HISISOP1 - The Bond III automated ICC procedure IMMHINST4 - Bond III solutions and antibody titres	
	Simple glandular & transitional and columnar epithelia,	Cytokeratin 18	RBH
	GI epithelia	Cytokeratin 20	RBH
	Cytomegalovirus viral inclusions	Cytomegalovirus	RBH
	Lymphatic endothelial cells	D2-40	RBH
	Smooth & striated muscle cells	Desmin	RBH
	Epithelial membrane antigen (Glandular & ductal epithelia, perineurium; other cell types in various tumours)	Epithelial Membrane Antigen (EMA)	RBH
	Cellular estrogen receptor expression	OR (Oestrogen Receptor)	RBH
	Human Chorionic Gonadotropin (Trophoblastic elements, e.g. in germ cell tumours)	HCG (beta)	RBH
	Human melanoma black 45 antigen (Activated melanocytes; melanocytic tumours)	HMB 45	RBH



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Paraffin section (cont'd)	<u>Immunocytochemistry to detect the following</u> (cont'd)	In-house documented procedures using Leica Bond III HISISOP1 - The Bond III automated ICC procedure IMMHINST4 - Bond III solutions and antibody titres	
	Plasma cells and related lymphoid cells containing IgG4)	IgG4	RBH
	Plasma cells and related lymphoid cells containing Kappa light chains	Kappa	RBH
	Ki-67 nuclear antigen (Proliferating cells; cells in cycle)	Ki-67	RBH
	Plasma cells and related lymphoid cells containing Lambda light chains	Lambda	RBH
	Malignant Mesothelioma	MTAP	RBH
	Acidic and basic human cytokeratins	Multi-cytokeratin (AE1/AE3)	RBH
	Epithelial tissue from glandular to stratified squamous	MNF116	RBH
	Napsin A, expressed in type II pneumocytes, kidney and foetal lung	Napsin (A)	RBH
	Nuclear protein of testis in NUT-midline carcinomas (head, neck and mediastinum tumours)	NUT-midline	RBH



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Paraffin section (cont'd)	<u>Immunocytochemistry to detect the following</u> (cont'd)	In-house documented procedures using Leica Bond III HISISOP1 - The Bond III automated ICC procedure IMMHINST4 - Bond III solutions and antibody titres	
	P40 protein in squamous cell carcinomas (lung, urothelial, head and neck)	P40	RBH
	Placental Alkaline Phosphatase in germ cell tumours, particularly seminomas; also breast, lung, ovarian carcinomas	Placental AP (PLAP)	RBH
	Cellular progesterone receptor expression	Progesterone Receptor (PR)	RBH
	Prostate specific antigen	Prostate Specific Antigen (PSA)	RBH
	Lung adenocarcinomas	ROS-1	RBH
	Normal and neoplastic melanocytes; macrophages; adipocytes; nerve fibres; many tumour types	S100	RBH
	Smooth muscle, myoepithelial and other contractile cells	Smooth Muscle Actin	RBH



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Paraffin section (cont'd)	<u>Immunocytochemistry to detect the following</u> (cont'd)	In-house documented procedures using Leica Bond III HISISOP1 - The Bond III automated ICC procedure IMMHINST4 - Bond III solutions and antibody titres	
	Solitary fibrous tumor (SFT) fibroblastic neoplasm	STAT6	RBH
	Synaptic vesicle protein (neurones; neuroendocrine cells)	Synaptophysin	RBH
	Diagnostic marker and indicator for lung carcinoma	Thyroid Transcription Factor 1 (TTF1)	RBH
	Thyroglobulin containing cells	Thyroglobulin	RBH
	Vimentin intermediate filament	Vimentin	RBH
	Von Willebrand Factor (endothelial cells)	VWF (F8)	RBH
	Epithelial cells and smooth muscle in fallopian tube. Wilms tumour	Wilms Tumour 1 (WT-1)	RBH



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	Macroscopic and Microscopic examination supported by in-house documented procedures based on equipment manuals as relevant	
Paraffin section (cont'd)	<u>Immunocytochemistry to detect the following</u> (cont'd)	In-house documented procedures using Leica Bond III	
	Immune System Molecule	In-house documented procedures using IMMHINST6 - PD-L1 Staining Procedure HISTEQINST20 - Autostainer Plus Dako & PT Link PD-L1 (22C3)	RBH
		In-house documented procedures using Roche Ventana Benchmark Ultra HISTEQINST55 – Ventana BenchMark Ultra HISTEXDOC62 - Operator Guide for Ventana BenchMark Ultra IMMHINST7 - Ventana BenchMark Ultra Solutions & Antibody Titres	
	Anaplastic Lymphoma Kinase (Human p80 protein)	ALK1	RBH
	Lung Adenocarcinomas	ROS-1	RBH
Slides prepared in-house from sample types listed above (Histology, Cytology, Immunohistochemistry)	Morphological assessment and interpretation/diagnosis	HISDSOP4 - Reporting Pathology Results using Microscopes - HISTEQINST6.	RBH HH



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HUMAN BODY FLUIDS	<u>Cytopathology (Non-Gynae) examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures using HISCSOP1 - Preparation of Cytology Specimens CYTOINST6 - Preparation of all Cytology Specimens and specified In combination with following	RBH
Fine needle aspirates – sputum, urine CSF, nasal swab, oesophageal washings and brushings, Conventional Bronchial Brushings, Serous fluids, Bronchial washings and Bronchial Alveolar lavage samples.	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities	CYTOINST8 – Lymphoprep CYTOINST5 - Preparation of Nasal swab for eosinophils CYTOINST10 - Preparation of Sputum CYTOINST3 - Preparation of BAL for Differential Cell Count	RBH





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HUMAN BODY FLUIDS (cont'd)	<u>Cytopathology (Non-Gynae) examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using HISCSOP1 - Preparation of Cytology Specimens CYTOINST6 - Preparation of all Cytology Specimens and specified In combination with	RBH
Fragments, clots, cell pellets from various cytological fluids. TBNA samples processed to paraffin section	Preparation and examination of cellular material to identify or exclude morphological & cytological abnormalities	CYTOINST4 - Preparation of Cell Pellet HISHSOP1 - Cut up Procedure HISHSOP2 - Tissue Processing HISHSOP3 - Embedding Process ASP6025 – Leica - HISTEQINST4, Tissue Processor VIP – Sakura - HISTEQINST10 Histostar Thermo Scientific - HISTEQINST11	RBH
Non-gynae cytology Smear or cyto-centrifuge preparation	Basophilic and acidophilic intra- and extracellular structures	HISHSOP5 - Special Staining Process in combination with:	RBH
Smear or cyto-centrifuge preparation	Carbol chromotrope for eosinophils	CYTSTAIN1 - Modified Carbol Chromotrope	RBH
Smear or cyto-centrifuge preparation	Preparation and examination of cellular material to identify or exclude morphological & cytological abnormalities	CYTSTAIN5 - Modified Papanicolaou Stain-Manual method	RBH



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Air-dried cyto-centrifuge preparation	Preparation and examination of cellular material to identify or exclude morphological & cytological abnormalities	CYTSTAIN2 - Modified May-Grunwald Giemsa- Manual method CYTSTAIN4 - Oil Red O Fat-laden macrophages	RBH
Slides prepared in-house from sample types listed above	Cytological assessment and interpretation/diagnosis	Microscopy qualitative analysis CYTOINST7 - Cytology Screening by Biomedical Scientists Microscopes - HISTEQINST6.	RBH
END			