

# 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 9039</p> <p>Accredited to ISO 15189:2022</p>	<h3>HSL (Analytics) LLP</h3> <p>Issue No: 012    Issue date: 05 March 2026</p>	
	<p><b>Histopathology</b> Hemel Hempstead Hospital Hillfield Road Hemel Hempstead Hertfordshire HP2 4AD United Kingdom</p>	<p><b>Contact: Andrew Clarke</b> Tel: +44 (0) 020 7307 7342 E-Mail: Andrew.Clarke@hslpathology.com Website: www.hslpathology.com</p>
<p><b>Testing performed by the Organisation at the locations specified below</b></p>		

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

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> Cellular Pathology Hemel Hempstead Hospital Hillfield Road Hemel Hempstead Hertfordshire HP2 4AD United Kingdom</p> <p><b>Local contact</b> Andrew Clarke</p>	<p>Histopathology Immunocytochemistry Andrology- Fertility semen analysis Non-Gynae Cytology</p>	HHH

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>EBUS/ EUS, Endoscopy, Level 3 PMOK      Andrew Clarke Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB</p>	<p>Sample preparation, slide production, staining &amp; mounting of fine needle aspirates with ROSE (Rapid On-Site Evaluation) by light microscopy of preparation for adequacy, for diagnostic cytology</p>	WAT
<p>ROSE for the Head &amp; Neck Clinic      Andrew Clarke Radiology, Jubilee Wing Hemel Hempstead Hospital Hillfield Rd Hemel Hempstead HP2 4A</p>	<p>Sample preparation, slide production, staining &amp; mounting of fine needle aspirates with ROSE (Rapid On-Site Evaluation) by light microscopy of preparation for adequacy, for diagnostic cytology</p>	HHH



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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
HUMAN TISSUES	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>		
Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens	<u>Routine Histopathology</u> Examination of tissues to identify or exclude morphological and cytological abnormalities for the purpose of clinical diagnosis	Macroscopic and Microscopic examination  In-house documented procedures in conjunction with equipment as specified:	HHH
Fresh and formalin fixed human tissue specimens		<u>Macroscopic examination</u> In house documented procedures HISOPSD001 to HISOPSD066	HHH
Formalin fixed tissue		<u>Tissue Processing</u> Documented in-house procedure HISOPGL012, 080, 079 and in conjunction with manufacturer's instructions for , MenariniLogos Tissue processors	HHH
Formalin fixed tissue		<u>Embedding</u> Documented in-house procedure HISOPGL022 in conjunction with manufacturer's instructions for Sakura Tek6 7 Myr embedding centres	HHH
Paraffin wax impregnated blocks		<u>Microtomy</u> Documented in-house procedure HISOPG024 in conjunction with manufacturer's instructions for Thermo Microm & Leica RM300 microtomes and Leica Cognitive printers	HHH



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HUMAN TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)		
Paraffin wax tissue sections	<u>Routine Staining</u> Identification of basophilic & eosinophilic structures	Automated H&E staining Documented in-house procedure HISOPG029 in conjunction with manufacturer's instructions for Sakura Prisma DRS staining machine & coverslipper	HHH
Paraffin wax tissue sections & cell blocks	<u>Special Staining</u> Examination of tissues to identify or exclude morphological and cytological abnormalities for the purpose of clinical diagnosis	Documented in-house procedures and using manual staining methods:	HHH
	Acid & neutral mucins	AB PAS/DPAS (HISOPSS001)	
	Amyloid	Congo Red (HISOPSS029)	
	Venous invasion	Elastic H&E (HISOPSS033)	
	Elastic	EVG (HISOPSS006)	
	Reticulin	Gordon & Sweets (HISOPSS010)	
	Gram +/- organisms	Gram (HISOPSS009)	
	Fungi & pneumocystis	Grocott (HISOPSS012)	
	Connective tissue	HVG (HISOPSS01)	
	Melanin	Masson Fontana (HISOPSS020)	
	Connective tissue	Masson trichrome (HISOPSS021)	
	Fibrin	MSB (HISOPSS019)	
	Hepatitis B / CAP	Orcein (HISOPSS024)	
	Glycogen & PAS+ve substances	PAS/DPAS (HISOPSS025)	



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HUMAN TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in-house procedures	HHH	
	<u>Special Staining</u> (cont'd)	Manual staining methods (cont'd)		
	Haemosiderin	Perls (HISOP026)		
	Calcium	Von Kossa (HISOPSS054)		
	Leprosy bacilli	Wade Fite (HISOPSS028)		
	Tubercle bacilli	ZN (HISOPSS030)		
	<u>Immunocytochemistry</u>			
Paraffin wax tissue sections & cell blocks	Examination of tissues to identify or exclude morphological and cytological abnormalities for the purpose of clinical diagnosis	Documented in-house procedures HISOPIM020 in conjunction with manufacturer's instructions for antibodies, Leica Bond-III		HHH
	Epithelial cells	AE1/AE3		
	Hepatocytes & germ cell tumour	A fetoprotein		
	Muscle	ASMA		
	Scattered T cells in germinal centres & mantle zone B cells	BCL2		
	Classification of Burkitts lymphoma	BCL6		
	Mesothelioma panel marker-epithelial	BEREP4		
	Classification of adenocarcinomas especially ovarian tumours	CA125		
	Renal Cell Carcinoma	CAIX		



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HUMAN TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in-house procedures	HHH
	<u>Immunocytochemistry</u> (cont'd)	Leica Bond-III using HISOPIM020 and antibodies:	
	Mesothelial cells	Calretinin	
	T cells in mantle zone	CD3	
	Thymocytes & T helper cells	CD4	
	T & B cell malignancies	CD5	
	Cytotoxic suppressor T cells	CD8	
	Burkitts' & follicular lymphoma, ALL	CD10	
	Reed Sternberg cells, Hodgkins	CD15	
	B cells / lymphoma	CD20	
	B cells / dendritic marker	CD21	
	Dendritic marker	CD23	
	Hodgkin's lymphoma	CD30	
	Endothelial marker	CD31	
	Endothelial marker	CD34	
	Lymphoma	CD45	
Neuroendocrine tissue, carcinoid	CD56		
Activated platelets, neutrophils & basophils	CD68		
Mononuclear phagocytes, Macrophages	CD79a		



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HUMAN TISSUES (cont'd)	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p><u>Immunocytochemistry</u> (cont'd)</p> <p>GIST tumours</p> <p>Plasma cells, B lymphocyte differentiation</p> <p>Colorectal cancer</p> <p>Epithelial</p> <p>Neuroendocrine cells</p> <p>Prostate/breast – differentiate between benign/malignant</p> <p>Bowel</p> <p>Epithelium</p> <p>Ovarian</p> <p>Cytomegalovirus</p> <p>Mantle cell lymphoma</p> <p>Vascular</p> <p>Smooth &amp; striated muscle</p> <p>GIST tumours</p> <p>Breast E-cadherin positive cells I normal &amp; neoplastic tissues</p> <p>Epithelial cells</p>	<p>Documented in-house procedures</p> <p>Leica Bond-III using HISOPIM020 and antibodies:</p> <p>CD117</p> <p>CD138</p> <p>CDX-2</p> <p>CEA(M)</p> <p>Chromogranin</p> <p>CK5/6</p> <p>CK7</p> <p>CK8/18</p> <p>CK20</p> <p>CMV</p> <p>Cyclin D1</p> <p>D240</p> <p>Desmin</p> <p>DOG-1</p> <p>E-Cadherin</p> <p>EMA</p>	



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HUMAN TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)  <u>Immunocytochemistry</u> (cont'd)  Breast carcinoma  Yolk sac tumour  Germ cell tumours  HER2 gene amplification  Melanocytes  Mismatch repair proteins/ microsatellite instability  Sex cord stromal tumours  Light chains  Proliferating cells  Light chains  Melanocytes, melanoma  Epithelial  Respiratory  Ovarian & endometrial carcinoma	Documented in-house procedures  Leica Bond-III using HISOPIM020 and antibodies:  GATA3  Glypican 3  HCG  HER2  HMB45  HNPCC (hMLH1, hMSH2, hMSH6, PMS2)  Inhibin  Kappa  Ki67  Lambda  MelanA  MNF116  MOC31  Napsin	



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HUMAN TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in-house procedures	
	<u>Immunocytochemistry</u> (cont'd)	Leica Bond-III using HISOPIM020 and antibodies:	
	Germ cell tumours	OCT3/4	
	Breast	OR	
	Cervical Ca/Oral Ca -tumour suppressor gene	P16	
	Lung squamous cell carcinoma	P40	
	Identification of p53 in normal and neoplastic tissue	P53	
	Prostate/breast basal cells	P63	
	Serous carcinoma	PAX8	
	Breast	Progesterone	
	Prostatic epithelium	PSA	
	Prostate	Racemase	
	Renal cell carcinoma	RCC	
	Melanoma, glial cells	S100	
	Soft tissue	SMMHC	
	Melanoma	SOX10	
	Neuroendocrine	Synaptophysin	
Thyroid transcription factor	TTF1		
Wilms tumour	WT1		



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HUMAN TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in-house procedures	
	<u>Immunocytochemistry</u> (cont'd)	Leica Bond-III using HISOPIM020 and antibodies:	
	Intermediate filament protein expressed in mesenchymal cells	Vimentin	
HUMAN BODY FLUIDS	<u>Andrological examination activities for the purposes of clinical diagnosis</u>		
Semen	<u>Fertility testing:</u>	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method / documented in-house procedure HISOPSA002	HHH
	Volume	Volume/weight	
	pH	Colorimetric strips	
	Sperm morphology excluding TZI scoring	Stained slides (Papanicolaou) microscopy (Bright field)	
	Sperm concentration	Improved Neubauer counting chambers and Microscopy (Phase contrast)	
	Sperm motility	Microscopy (Phase contrast)	
	Sperm vitality	Stained slide (Eosin/Nigrosin) and light microscopy	HHH
	<u>Post vasectomy</u>		HHH
	Detection of sperm Sperm concentration	Based on 2016 Laboratory guidelines for post vasectomy semen analysis: Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons Manual method using fixed depth chamber (Neubauer) and microscopy (phase contrast)	



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HUMAN TISSUES AND FLUIDS	<u>Diagnostic cytopathology</u>	In-house documented procedures in conjunction with manufacturer's instructions using:	HHH
Fixed and fresh cellular material and body fluid samples, prepared slides, lymph node surgical specimens, fine needle aspirates and brushings:	Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis		
Bronchioalveolar lavages and tracheal aspirates Biliary brushings Gastric and oesophageal brushings CSF Non gynae LBC samples Breast cyst fluid FNA Serous fluids Skin scrapings Sputum Synovial fluids Urines Intraoperative lymph node		<u>Preparation of cell samples</u> Thermo Scientific Sorvall ST16 Centrifuge ThermoShandon Cytospin CYSOP135	HHH
		<u>Production of cell block</u> CYSOP027	HHH
		<u>Production of slides for immunocytochemistry</u> CYSOP027	HHH
		<u>Production of slides for special stains</u> CYSOP027	HHH
EBUS/ EUS Fine needle aspirates from: Thoracic: lung, lymph node, mediastinal and pleural Pancreatic Adrenal Head & Neck		<u>Preparation of samples and ROSE examination of samples for adequacy prior to submission to laboratory</u> Documented in-house procedure using DiffQuik stain and light microscopy CYSOP208	WAT/ HHH



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Diagnostic cytopathology</u> (cont'd)	<u>Preparation of samples</u> Documented in-house procedures CYSOP175, CYSOP132	HHH
Fine needle aspirates from: Lymph nodes Neck mass		<u>Preparation of slides for staining</u> Hologic T2000 processor CYSOP170	HHH
		<u>Staining</u> Automated using stains as specified using in-house procedures in conjunction with manufacturer's instructions for Shandon Gemini AS PAP CYSOP164: Papanicolaou: CYSOP024 May Grunwald Giemsa: CYSOP164	HHH
Wet preparations of respiratory and serous fluids	Identification of lipid	Manual staining using in-house procedures using stains: Diff quick: CYSOP208 Oil Red O: CYSOP236	HHH
Stained slides	Morphological assessment and interpretation/diagnosis	<u>Microscopy (qualitative analysis)</u> In-house procedures using light microscopy: CPSOP140	HHH
END			