


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>9039</b> Accredited to ISO 15189:2012	<b>West Hertfordshire Hospitals NHS Trust</b>	
	Issue No: 003    Issue date: 28 May 2020	
	<b>Histopathology</b> Hemel Hempstead Hospital Hillfield Road Hemel Hempstead Hertfordshire HP2 4AD United Kingdom	<b>Contact: Wendy Riddle</b> Tel: +44 (0)1442 287833 E-Mail: wriddle@nhs.net
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
<b>Address</b> Histopathology Hemel Hempstead Hospital Hillfield Road Hemel Hempstead Hertfordshire HP2 4AD United Kingdom	<b>Local contact</b> Wendy Riddle	Histopathology Immunocytochemistry Andrology- Post vasectomy semen analysis Andrology- Fertility semen analysis
		HHGH



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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:	HHGH
Fresh and formalin fixed human tissue specimens		<u>Macroscopic examination</u> In house documented procedures HISOPSD001 to HISOPSD066	HHGH
Unfixed human tissue		<u>Frozen sections</u> In house documented procedure HISOPGL014 using Leica CM18606V Cryostat	HHGH
Formalin fixed tissue		<u>Tissue Processing</u> Documented in-house procedure HISOPGL012 and HISOPGL013 in conjunction with manufacturer's instructions for VIP E & ASP300S Tissue processors	HHGH
Formalin fixed tissue		<u>Embedding</u> Documented in-house procedure HISOPGL022 in conjunction with manufacturer's instructions for Sakura Tek5 embedding centres	HHGH
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	HHGH



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HUMAN TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>		
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	HHGH
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:	HHGH
	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 (Cont'd)</u>	Documented in-house procedures (Cont'd)	
	<u>Special Staining (Cont'd)</u>	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	HHGH
	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	
	Calcitonin producing C cells-Thyroid C cells & carcinoma	Calcitonin	



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HUMAN TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (Cont'd)</u>	Documented in-house procedures (Cont'd)	
	<u>Immunocytochemistry (Cont'd)</u>	Leica Bond-III using HISOPIM020 and antibodies: (Cont'd)	
	Mesothelial cells (normal & neoplastic)	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 & meso panel	CD15	
	B cells – lymphoma	CD20	
	B cells – dendritic cells	CD21	
	Lymphocytes in germinal centre	CD23	
	Normal B lymphocytes, Reed Sternberg cells, Hodgkin's	CD30	
	Activated T & B Cells	CD31	
	Anaplastic large cell lymphoma, Reed Sternberg cells, Hodgkin's	CD34	
	Non-Hodgkin's lymphoma	CD45	
NK cells, neural, neuroendocrine tissue, carcinoid	CD56		
Activated platelets, neutrophils & basophils	CD68		



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HUMAN TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (Cont'd)</u>	Documented in-house procedures (Cont'd)	
	<u>Immunocytochemistry (Cont'd)</u>	Leica Bond-III using HISOPIM020 and antibodies: (Cont'd)	
	Mononuclear phagocytes, Macrophages	CD79a	
	Ewings sarcoma	CD99	
	GIST tumours	CD117	
	Plasma cells, B lymphocyte differentiation	CD138	
	Differentiation of carcinoid & metastatic adenocarcinoma	CDX-2	
	Epithelial	CEA(M)	
	Neuroendocrine cells	Chromogranin	
	Prostate/breast – differentiate btween benign/malignant	CK5/6	
	Ovarian	CK7	
	Epithelium	CK8/18	
	Ductal & glandular epithelium	CK19	
	Ovarian	CK20	
	Cytomegalovirus	CMV	
	Mantle cell lymphoma	Cyclin D1	
	Vascular	D240	
	Smooth & striated muscle	Desmin	
	GIST tumours	DOG-1	
E-cadherin positive cells I normal & neoplastic tissues	E-Cadherin		



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HUMAN TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (Cont'd)</u>	Documented in-house procedures (Cont'd)	
	<u>Immunocytochemistry (Cont'd)</u>	Leica Bond-III using HISOPIM020 and antibodies: (Cont'd)	
	Epithelial cells	EMA	
	Endothelial cells & megakaryocytes	Factor XIIIa	
	Breast gland	GCDFP-15	
	Breast carcinoma	GATA3	
	Yolk sac tumour	Glypican 3	
	Germ cell tumours	HCG	
	HER2 gene amplification	HER2	
	Melanocytes	HMB45	
	Mismatch repair proteins/ microsatellite instability	HNPCC (hMLH1, hMSH2, hMSH6, PMS2)	
	Sex cord stromal tumours	Inhibin	
	Light chains	Kappa	
	Proliferating cells	Ki67	
	Light chains	Lambda	
	Melanocytes, melanoma	MelanA	
	Epithelial	MNF116	
	Respiratory	MOC31	
Ovarian & endometrial carcinoma	Napsin		
Peripheral nerves	Neurofilament		
Neuroendocrine	NSE		



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HUMAN TISSUES (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (Cont'd)</u>	Documented in-house procedures (Cont'd)	
	<u>Immunocytochemistry (Cont'd)</u>	Leica Bond-III using HISOPIM020 and antibodies: (Cont'd)	
	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	
	Renal	PAX2	
	Serous carcinoma	PAX8	
	Germ cell	PLAP	
	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 (Cont'd)</u>	Documented in-house procedures (Cont'd)	
	<u>Immunocytochemistry (Cont'd)</u>	Leica Bond-III using HISOPIM020 and antibodies: (Cont'd)	
	Intermediate filament protein expressed in mesenchymal cells	Vimentin	
HUMAN BODY FLUIDS	<u>Andrology examination activities for the purpose of clinical diagnosis</u>	Documented in-house procedures (Cont'd)	
	<u>Andrology</u>	Documented in-house procedures HISOPSA002 in conjunction with WHO (2010) guidelines and 2016 Post Vasectomy Guidelines	HHGH
Seminal fluid	<u>Fertility analysis:</u>	Documented in-house procedures HISOPSA002	HHGH
	Volume pH Motility Concentration Morphology Vitality		
Seminal fluid	<u>Post vasectomy analysis:</u>	Documented in-house procedures HISOPSA002	HHGH
	Volume Sperm presence/ absence Motility		

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