


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2012	York and Scarborough Teaching Hospitals NHS Foundation Trust	
	Issue No: 003 Issue date: 21 October 2021	
	York Hospital Wigginton Road York North Yorkshire YO31 8HE	Contact: Elizabeth Fox Tel: +44 (0) 1904 725163 E-Mail: Elizabeth.Fox@york.nhs.uk Website: www.yorkhospitals.nhs.uk/our-services/a-z-of-services/laboratory-medicine1
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity
Address Cellular Pathology Laboratory York Hospital Wigginton Road York North Yorkshire YO31 8HE	Local contact Elizabeth Fox	Histopathology Special Stains Immunocytochemistry Frozen Section Histology Cytology –Non-Gynae Andrology



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS and TISSUES</p> <p>Tissue samples</p>	<p><u>Examinations in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u></p> <p><u>Histopathology</u></p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Specimen dissection: Leica IPC cassette printers (2) HI-SOP-CUT-UP HI-SOP-CYTOGENT HI-SOP-HMDS</p> <p>HI-SOP-TESTES</p> <p>Decalcification using HI-SOP-DECAL</p> <p>Tissue processing: Leica Peloris processor x2 Leica ASP 6025 processor</p> <p>HI-SOP-PROCESSOR</p> <p>Embedding: ThermoFisher Scientific HistoStar embedding centre x 2</p>



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Examinations in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant:
Formalin fixed paraffin embedded tissue samples (unless stated)	Automated Staining for Identification of basophilic and eosinophilic structures	Microtomy: HI-SOP-MICROT Leica RM2135 Leica RM2235 Leica Histocore Autocut
	Manual Identification of basophilic and eosinophilic structures	Haematoxylin and eosin stain automated: Tissue-Tek Prisma automated stainer and film coverslipper HI-SOP-MOUNT HI-SOP-STAINER
	Special staining to identify the following:	Haematoxylin and eosin stain HI-SOP-Rapid-H&E
	Collagen, muscle	Manual staining with reference to documented procedures listed below
	Connective tissue	Weigert's van Gieson (HI-SOP-WVG)
	Fibrin, muscle, collagen	Masson Trichrome with Aniline Blue (HI-SOP-MT)
	Elastic fibres/muscle	Martius Scarlet Blue (HI-SOP-MSB)
	Reticulin fibres	Miller's Elastic Stain (HI-SOP-EVG)
Fresh tissue	Amyloid	Gordon and Sweet's Reticulin (HI-SOP-RETIC)
	Acid and neutral mucins	Highman's Congo Red (HI-SOP-CONGO RED)
	Fungi, mucins and lack of glycogen	Alcian Blue pH 2.5/Alcian Blue pH 2.5+/- with PAS (HI-SOP-AB)
		Periodic Acid Schiff (PAS)/ PAS + digestion (HI-SOP-PAS)



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Formalin fixed paraffin embedded tissue samples (unless stated)	Special staining to identify the following: (cont'd)	Manual staining with reference to documented procedures listed below (cont'd)
	Proteoglycans, hyaluronic acid, acid mucins, collagen and muscle	Colloidal Iron (HI-SOP-IRON)
	Ferric iron	Perls' Prussian Blue (HI-SOP-PERLS)
	Melanin	Masson Fontana (HI_SOP-MF)
	Melanin	Melanin Bleach (HI-SOP-MELANIN)
	Calcium salts	Von Kossa (HI-SOP-VON KOSSA)
	Hepatitis surface antigen, elastic fibres and copper associated protein	Shikata Orcein (HI-SOP-ORCEIN)
	Bacteria	Gram (HI-SOP-GRAM)
	Acid fast bacilli	Ziehl-Neelsen (HI-SOP-ZN)
	Polysaccharide in walls of fungi and other opportunistic organisms	Tome and Hayashi HI-SOP-GROCOTT)
	Detection of Helicobacter pylori	Giemsa (HI-SOP-GIEMSA)
	Leprosy bacilli	Wade-Fite (HI-SOP-WF)
	Mast cell granules	Toluidine Blue (HI-SOP-TOL BLUE)



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Formalin fixed paraffin embedded tissue	Immunocytochemistry for the identification of cells/diseases below:-	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT system automated ICC
	Identification of liver disease, yolk sac and mixed germ cell tumours	HI-SOP-IMMUNO
	Smooth muscle cells	Alpha fetoprotein
	Identification of several malignancies, including B-cell chronic lymphocytic leukemia (CLL) and non-Hodgkin's lymphomas (NHL), mainly low-grade and follicular in type.	Alpha smooth muscle actin
	Epithelial cell types	Bcl-2 antibody
	Malignant ovarian epithelial cells, seminal vesical carcinoma and anaplastic lymphoma	BER EP4
	Identifies medullary Ca of thyroid	CA125
	Identification of smooth muscle and tumour cells in smooth muscle	Calcitonin
	Mesothelioma from adenocarcinoma	Caldesmon
	Identification of neoplasms of epithelial origin	Calretinin
	Pan T-cell marker used for the identification of immature and mature T-cell malignancies	CAM5.2 antibody
	Identification of Burkitts lymphoma, follicular germ cell lymphoma and RCC	CD3
		CD10



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Formalin fixed paraffin embedded tissue (cont'd)	Immunocytochemistry for the identification of cells/diseases below: (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT system automated ICC
	Expressed in Reed-Sternberg cells and is thus a useful marker for identifying Hodgkin's lymphoma.1	HI-SOP-IMMUNO CD15
	Directed against any epitope present on human B lymphocytes, plasma cells are negative	CD20
	Identification of classical Hodgkin's lymphoma and anaplastic large cell lymphoma	CD30
	Malignant ovarian epithelial cells, seminal vesical carcinoma and anaplastic lymphoma	CA125
	Identify vascular origin of neoplasms	CD31
	Identification of blasts in acute leukaemia and as a marker for endothelial cells in differential diagnosis of poorly differentiated malignant tumours	CD34



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Formalin fixed paraffin embedded tissue (cont'd)	Immunocytochemistry for the identification of cells/diseases below: - (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT system automated ICC
	Identification of all haematopoietic cells (except erythrocytes)	HI-SOP-IMMUNO CD45
	Leucocyte differentiation	CD56
	Identification of macrophages	CD68
	Identification in GIST, some positivity in seminoma, melanoma, some breast ca types and small cell ca	CD117
	Usually present in gastrointestinal epithelium. Useful to determine origin of metastatic carcinomas and carcinoids	CDX-2
	Distinguish between adenocarcinomas and mesotheliomas. Identify the origin of certain metastatic carcinomas	CEA
	Tissue of neuroendocrine origin	Chromogranin A
	Mesothelioma, prostate carcinoma	CK5/6
	Normal and neoplastic epithelia	CK7
	Squamous cell carcinomas, metaplastic carcinomas of the breast	CK14



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Formalin fixed paraffin embedded tissue (cont'd)	Immunocytochemistry for the identification of cells/diseases below: - (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT system automated ICC
	Marker for papillary thyroid carcinoma	HI-SOP-IMMUNO CK19
	Gastric and intestinal epithelium, urothelium and Merkel cells	CK20
	Pan cytokeratin marker	CKAE1/3
	Cytomegalovirus	Cytomegalovirus
	Reacts with tumours of myogenic and striated muscle origin	Desmin
	Diagnosis of GIST	DOG-1
	Normal duct epithelial cells, ductal carcinoma	E-CADHERIN
	Many carcinomas – normal and neoplastic cells from various tissues	Epithelial Membrane Antigen
	Oestrogen receptor antigen	Estrogen Receptor
	Benign and neoplastic neoplasms and anaplastic large cell lymphoma	Galectin-3
	Identifies breast carcinomas and urothelial carcinomas	GATA3
	Differentiate breast carcinoma metastatic to ovary (positive) from primary ovarian carcinoma (negative)	GCDF
	Identification of mesothelioma and papillary thyroid carcinoma	HBME-1



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Formalin fixed paraffin embedded tissue (cont'd)	Immunocytochemistry for the identification of cells/diseases below:- (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT system automated ICC
	Identification of cells and tumours of trophoblastic origin	HI-SOP-IMMUNO
	Recognises benign and malignant liver	hCG
	Assessment of suitability of breast cancer patients in respect of the drug Herceptin	Hepatocyte
	Classification of melanomas	Her-2
	Differentiation between adrenal cortical tumours and renal cell carcinomas, also interuterine v ectopic pregnancy	HMB45
	Assess the proliferative activity of normal and neoplastic tissue	Inhibin
	Primary and metastatic malignant melanoma	Ki-67
	Useful as a first line marker for epithelial tumours	MELANA
	DNA mismatch repair protein. Useful marker for the classification of colorectal cancer	MNF116
	DNA mismatch repair protein. Useful marker for the classification of colorectal cancer	MLH-1
		MSH-1



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Formalin fixed paraffin embedded tissue (cont'd)	Immunocytochemistry for the identification of cells/diseases below:- (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT system automated ICC
	DNA mismatch repair protein. Useful marker for the classification of colorectal cancer	HI-SOP-IMMUNO
	Marker for germ cell tumours	MSH-6
	Classification of cervical dysplasia and in the differential diagnosis of cervical adenocarcinoma v endometrial adenocarcinoma	OCT3/4
	DNA mismatch repair protein. Useful marker for the classification of colorectal cancer	p16
	Expressed in lymphatic endothelium as well as lymphangiomas, and Kaposi sarcomas. Podoplanin has also been shown to be expressed in epithelioid mesotheliomas and seminomas	PMS-2
		PODOPLANIN



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Formalin fixed paraffin embedded tissue (cont'd)	Immunocytochemistry for the identification of cells/diseases below:- (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT system automated ICC
	Classification of premalignant high-grade prostatic intraepithelial neoplasia (HGPIN) and prostate adenocarcinoma.	HI-SOP-IMMUNO P504S
	Tumour expressor gene found in malignancies	p53
	Identification of complete hydatidiform mole	p57
	Benign and malignant prostatic or breast lesions, differentiation of lung squamous cell carcinoma and lung adenocarcinoma	p63
	Germ cell tumours	Placental Alkaline Phosphatase
	Progesterone Receptor antigen	Progesterone Receptor
	Prostate secretory and ductal epithelium	Prostatic Specific Antigen
	Identification of metastatic adenocarcinoma of the prostate	Prostatic Acid Phosphatase
	Identifies 90% of primary renal cell carcinomas and 85% of metastatic RCC	Renal Cell Carcinoma



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	Melanomas, neural cells	HI-SOP-IMMUNO
	Used to distinguish between benign sclerosing breast lesions and infiltrating carcinomas	S-100
	Sensitive marker of melanoma for conventional, and desmoplastic subtypes	Smooth muscle myosin
	Classification of neural type neoplasms and neuroendocrine neoplasms of epithelial type	SOX-10
	Diagnosis of mesothelioma	Synaptophysin
	Neoplasms of lung and thyroid, mesothelioma	Thyroglobulin
	Identification of urothelial carcinomas and as a tool to pinpoint metastases of unknown primary	TTF-1
	Endothelial cells, fibroblasts, smooth muscle	Uroplakin
	Identification of mesoderm-derived tumours including epithelioid mesothelioma and ovarian serous carcinoma	Vimentin
		WT-1



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Fresh Tissue	Identification of basophilic and eosinophilic structures	Routine Staining of Frozen Sections using fluorescent labelled antibodies Leica CM1860UV Cryostat HI-SOP-FROZENS
Skin	To qualitatively identify antibodies directly linked to fluorochromes to aid in the diagnosis of cases of autoimmune and inflammatory skin	Skin Immunofluorescence Leica CM1860UV Cryostat HI-SOP-IMF (manual staining) IgA, IgG, IgM, C3c
Slides prepared in house as above	Morphological assessment and interpretation/diagnosis	Light microscopy with reference to HI-SOP-MICROSCOP



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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Body fluids / Fine needle aspirations, bronchial samples, CSF's, urines, and serous effusions</p> <p>Synovial fluid specimens</p>	<p><u>Examinations in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u></p> <p><u>Diagnostic Non-Gynaecological Cytopathology</u></p> <p>Detection of abnormal cells</p> <p>Diagnostic assessment for the presence of crystals</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>CY-SOP-NG PREP manual methods using documented procedures</p> <p>CY-SOP-MYREVA Automated Papanicolaou staining using the Myreva SS30 Slide Stainer CY-SOP-P-MGGHAND Hand staining of air dried cytology slide preparations</p> <p>CY-SOP-SYF Polarised Light Microscopy</p>



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Seminal fluid ejaculate	<u>Andrology</u> Seminal Fluid Analysis for Fertility Investigation	Documented procedure & manufacturer's instructions CY-SOP-INF Processing and assessment of seminal fluid samples for fertility analysis
Seminal fluid ejaculate	Volume Morphology pH Viscosity Motility (Progressive, non-progressive, and immotile) Sperm Concentration	Volume/weight Stained slides (Papanicolaou) Colorimetric strips Gravity drop from pipette Phase Contrast Microscopy
Seminal fluid ejaculate	Post Vasectomy Seminal Fluid Analysis – presence or absence of sperm	CY-SOP-PVAS Processing and analysis of post-vasectomy seminal fluid samples by detection of presence or absence of spermatozoae in seminal fluid using counting chambers and manual phase contrast microscopy
END		