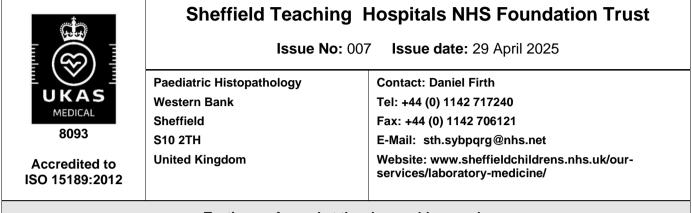
# **Schedule of Accreditation**

issued by

**United Kingdom Accreditation Service** 

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



Testing performed at the above address only

Additional site activity performed away from the laboratory

Location details	Activity
On-site Mortuary and Body Store	Storage of bodies Retrieval of tissue via post mortem Record keeping (body identification and audit trail)



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#### Sheffield Teaching Hospitals NHS Foundation Trust

Issue No: 007 Issue date: 29 April 2025

Testing performed at main address only

#### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties	_ Standard specifications/
	measured/Range of measurement	Equipment/Techniques used
HUMAN BODY TISSUE	Histopathological examination activities for the purposes of clinical diagnosis	Macroscopic and Microscopic examination:
Fixed and fresh tissue, excisional and incisional biopsies and surgical resection specimens	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Specimen Dissection SOP 326.4.100 - General specimen reception procedures. SOP 327.1.1 - Photography QPulse Asset module - HIS023 - HIS161 SOP 326.4.311 - Surgical samples - cut up SOP 326.4.346 - Handling fresh samples SOP 326.4.310 - Tumours & Lymph nodes (lymphomas) SOP 322.3 - Macro micro form SOP 322.5 - Gastrointestinal biopsy macro sheet
	Remove deposits of mineral	SOP 326.4.315 Decalcification
		Processing Thermo Shandon Excelsior Tissue Processor & Leica ASP300S – SOP 326.4.422 - Tissue Processing schedules SOP 326.4.424 - Tissue processor - General use
		Embedding Thermo Histostar SOP 326.4.332 - Embedding
Formalin – fixed paraffin tissue blocks		<u>Microtomy</u> Leica Histocore Biocut Microtomes – for sectioning blocks to produce paraffin sections ribbons
		<u>Microtomy</u> RA Lamb and Thermo Shandon Water baths – set at 45°C for floating sections
		SOP 326.4.334 – Microtomy



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination:
Unfixed Body fluids Unfixed Cell washings Unfixed Fine Needle Aspirates	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Non Gynae Cytology Cell slide preparations Cell block preparations Using Hettich universal 32 centrifuge and cytospin 4
		SOP 326.4.302 - Types of cytology specimens SOP 326.4.300 - Receipt of cytology and Surgical specimens SOP 326.4.222 – Use of centrifuge SOP 326.4.304 - Cytospin preparation
Formalin – fixed, paraffin embedded tissue sections or cytological		<u>Haematoxylin and Eosin stain</u> Automated
preparation on microscope slides		Leica AutoStainer XL– automated H&E stainer
		Leica CV 5030 Coverslipper – automated coverslipper
		SOP 326.3.032 - Haematoxylin & Eosin SOP 326.4.428 - Leica Autostainer XL & Coverslipper CV5030
		<u>Haematoxylin and Eosin stain</u> manual
	Special stains to identify the following:	<u>Special staining</u> Manual
	Acid Mucins	SOP 326.3.002 Alcian Blue/PAS
	Mucins	SOP 326.3.003 Alcian Blue pH2.5
		SOP 326.3.003A Alcian blue pH 1.0
	Micro-organisms and Protozoa	SOP 326.3.020 Giemsa
	Elastic fibres	SOP 326.3.024 Elastic Stain (Modified Miller's)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination:
Formalin – fixed, paraffin embedded tissue sections or cytological preparation on microscope slides (cont'd)	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Special stains to identify the following: (cont'd)	<u>Special staining</u> Manual
	Reticulin fibres	SOP 326.3.026 Gordon and Sweet's Reticulin
	Gram +ve micro-organisms	SOP 326.3.027 Gram +ve
	Gram +ve and -ve micro-organisms	SOP 326.3.028 Gram Twort Method
	Fungi and Pneumocystis carinii	SOP 326.3.030 Grocott's Silver Technique
		SOP 326.3.031 Grocott Methanamine Silver rapid Method
	Fibrin	SOP 326.3.041 MSB (Martius Yellow, Crystal Scarlet, Soluble Blue)
	Connective tissues	SOP 326.3.043b Masson's Trichrome Blue method
	Hematopoietic cells	SOP 326.3.045 May Grunwald Giemsa
	Helicobacter	SOP 326.3.047 Giemsa (Modified) Helicobacter
	Copper associated protein, elastic and Hepatitis B surface antigen (HBSAg)	SOP 326.3.051 Shikata's (Modified Orcein)
	Glycogen, Basement membranes Fungi	SOP 326.3.056 PAS (Periodic Acid Schiff)
	Glycogen	SOP 326.3.057 PAS - Diastase



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination:
Fixed and fresh tissue, excisional and incisional biopsies and surgical resection specimens (cont'd)	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Special stains to identify the following: (cont'd)	<u>Special staining</u> Manual
	Removal of pigments	SOP 326.3.062 Pigments (Removal of)
	Calcium	SOP 326.3.076 Von Kossa
	Mycobacterium leprae	SOP 326.3.077 Wade Fite
	Acid and alcohol fast bacilli	SOP 326.3.079 Ziehl-Neelsen (ZN)
	Iron	SOP 326.3.081 Perl's Prussian Blue
		<u>Special staining (Non-Gynae</u> <u>Cytology)</u> Manual
	Glycogen	SOP 326.3.056 PAS (Periodic Acid Schiff)
	Routine staining for identification of basophilic and eosinophilic structures	SOP 326.3.032 - Haematoxylin & Eosin
	Fungi and Pneumocystis carinii	SOP 326.3.030 Grocott's Silver Technique
Urine	Mast cells	SOP 326.3.071 Toluidine Blue



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination:
Formalin – fixed, paraffin embedded tissue sections or cytological preparation on microscope slides	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Immunocytochemistry for the identification of:	Immunohistochemistry Automated
		Dako Autostainer Link 48– automated stainer for use with a wide range of antibodies
		SOP 326.1.010 - Dako Autostainer Link 48
		SOPs that cover Immunocytochemistry are 326.1.001 to 326.1.013. The main ones are:
		SOP 326.1.001 - Immunocytochemistry general procedures SOP 326.1.004 - Immunocytochemsitry reagents SOP 326.1.013 - Control material for Immunocytochemistry SOP 341.1.004 - UKNEQAS ICC SOP 327.1.008 - Criteria for the rejection of immunocytochemistry
	Smooth Muscle/ myofibroblast	Actin (Smooth muscle)
	Alpha1 antitrypsin genetic diseases/ various tumours	Alpha1 Anti trypsin
	Cytogenetic marker	AE1&3 (Cytokeratin)
	Some lymphomas	ALK1 Protein
	Heptocellular carcinoma/ germ cell tumours	Alpha Feto Protein



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Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination:
Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
Immunocytochemistry for the identification of: (cont'd)	Immunohistochemistry Automated And antibodies as appropriate:-
Diagnostic utility lymphomas/ bone marrow biopsies	BCL-2 BCL-6
Axonal damage	Beta-APP
Various carcinomas	Beta Catenin
B-cells	BSAP (PAX-5)
Smooth muscle	Caldesmon Calponin
Mesothelial marker, some tumours and Hirschsprungs	Calretinin
Early hypoxic cellular damage	C9
Diagnostic utility lymphomas/ bone marrow biopsies	CD1a (010)
Diagnostic utility lymphomas/ bone marrow biopsies (cont'd)	CD3
T Antigen on Lymphocytes	CD4
T-cell subset	CD7
T-cell subset	CD8
Renal carcinoma/Lymphoma	CD10 (Calla)
Reed Sterberg and other cell types	CD15
Antigen of B Lymphocytes	CD20 (L26)
	measured/Range of measurementHistopathological examination activities for the purposes of clinical diagnosis (cont'd)Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)Immunocytochemistry for the identification of: (cont'd)Diagnostic utility lymphomas/ bone marrow biopsiesAxonal damage Various carcinomasB-cellsSmooth muscleMesothelial marker, some tumours and HirschsprungsEarly hypoxic cellular damageDiagnostic utility lymphomas/ bone marrow biopsiesDiagnostic utility lymphomas/ bone marrow biopsiesFarly hypoxic cellular damageDiagnostic utility lymphomas/ bone marrow biopsiesCont'd)T Antigen on LymphocytesT-cell subsetRenal carcinoma/LymphomaReed Sterberg and other cell types



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (conťd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination:
Formalin – fixed, paraffin embedded tissue sections or cytological preparation on microscope slides (cont'd)	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Immunocytochemistry for the identification of: (cont'd)	Immunohistochemistry Automated And antibodies as appropriate:-
	Follicular dendritic cells	CD21 (1F8)
	Aid in the classification of Lymphoma	CD23
	Reed Sterberg cells	CD30 (Kil) Ber H2
	Pan Leukocyte marker (T&B)	CD45 (LCA)
	T & B cells	CD45RO (UCLH1)
	Nerve and neuroendocrine cells	CD56 (NCAM)
	Megakaryocytes in trephines	CD61
	Macrophages and mononuclear cells	CD68 (PGM1)
	Useful for identification of B-cell lymphomas	CD79a
	Diagnostic utility lymphomas/ bone marrow biopsies (cont'd)	CD99
	Endothelial marker	CD31
	Stromal cells	CD34 (QB-End10)
	GIST, Haematopoietic progentitor, Mast cells	CD117 (C-KIT)
	Bone Biopsies/ Erythroid cells	CD235a (Glycophorin A)



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HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination:
Formalin – fixed, paraffin embedded tissue sections or cytological preparation on microscope slides (cont'd)	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Immunocytochemistry for the identification of: (cont'd)	Immunohistochemistry Automated And antibodies as appropriate:-
	Intestinal metaplasia/ Cancer colorectal origin	CDX2
	Neuroendocrine differentiation tumours/ medullary carcinoma thyroid	Chromogranin A
	Identification primary site carcinomas	CK7
	Cytomegalovirus	CMV
	COVID-19 antigen	COVID-19
	Lymphatic endothelium	D2-40
	Smooth muscle marker	Desmin D33
	Most normal and neoplastic epithelium/ some lymphomas	ЕМА
	Endothelial markers	Factor VIII
	Dermal dendrocytes (skin/ soft tissue markers)	Factor XIIIa
	Astrocytes, schwann cells and pheripheral nerve tumours	GFAP
	Infantile haemangioma	GLUT-1
	Trophoblast/ germ cell tumours	HCG
	Melanocytes (Melanoma)	HMB45



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HUMAN BODY TISSUE (conťd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination:
Formalin – fixed, paraffin embedded tissue sections or cytological preparation on microscope slides (cont'd)	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Immunocytochemistry for the identification of: (cont'd)	Immunohistochemistry Automated And antibodies as appropriate:-
	H. Pylori	H. Pylori
	Detection of HPV infected cells	HPV
	Herpes	HSV
	Epitheliod sarcoma, atypical teratois/ rhabdoid tumour	INI-1
	Tumour cell proliferation	Ki67
	Identification of Langerhans' histiocytosis	Langerin
	Mast cells	Mast Cell Tryptase (MCT)
	Labels melanocytes and identification of melanomas, and, if melanoma is ruled out, for adrenocortical carcinomas	Melan A
	Neutrophils, Granulocytic sarcoma	Myeloperoxidase
	Differentation hepatocellular carcinoma from cholangiocarcinoma	MOC 31
	Skeletal muscle differentiation	Myo-D
	Muscle biopsy	Myosin Slow
	Skeletal muscle differentiation	Myogenin
	Be cell lineage/ Lymphoma	MUM-1



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HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination:
Formalin – fixed, paraffin embedded tissue sections or cytological preparation on microscope slides (cont'd)	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	
	Immunocytochemistry for the identification of: (cont'd)	Immunohistochemistry Automated And antibodies as appropriate:-
	Neurofilament protein	NFP
	Neurosecretery cells	NSE
	Trophoblastic tumours	PLAP
	Differential skin, soft tissue & neural lesions	S100
	Neuroendocrine marker	Synaptophysin
	Differential leukaemia/ lymphomas	TdT
	Differential for a variety of benign lesions and tumours	Vimentin
	Wilm's tumour	Wilm's Tumour (WT1)
Frozen human muscle tissue	To identify presence of antigen.	Immunohistochemistry Manual
		Semi-automated pipettes Indirect Immunoperoxidase Technique for Frozen Sections SOP No: 326.1.005
		Myosin Slow- twitch (type I) Myosin Fast- twitch (type II)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination:
Frozen human tissue including muscle and rectal samples	Examination of fresh frozen tissue to rapidly identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Leica CM1900 & Leica CM1850 – used for sectioning frozen fresh tissue
	Routine staining for identification of basophilic and eosinophilic structures	SOP 326.3.032 - Haematoxylin & Eosin
	Connective tissue	SOP 326.2.013 - Van Gieson Frozen Section
	Glycogen, Basement membranes Fungi	SOP 326.2.016 - Cell PAS Frozen Section
Fresh frozen/cryostat unfixed surgical specimens	Engel's Gomori	SOP 326.2.014 – Nemaline rods and mitochondrial abnormalities
Fresh frozen/cryostat unfixed surgical specimens	Succinate Dehydrogenase	SOP 326.2.023 – Presence of Succinate Dehydrogenase
Fresh frozen/cryostat unfixed surgical specimens	Acid Phosphatase	SOP 326.2.028 – Presence of acid phosphatase
Fresh frozen/cryostat unfixed surgical specimens	Acetylcholinesterase (AChE)	SOP 326.2.032 – Cholinergic nerve fibres and ganglion cells.
Fresh frozen/cryostat unfixed surgical specimens	NADH-TR	SOP 326.2.022 – Mitochondria and fine detail of sarcoplasmic reticulum of fibre
Fresh frozen/cryostat unfixed surgical specimens	Cytochrome Oxidase	SOP 326.2.024 – Mitochondria in frozen sections of muscle



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HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination:
Formalin- fixed, paraffin embedded tissue sections or cytological preparations on microscope slides (cont'd)	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Interpretive Microscopy Nikon Microscope Olympus Microscope SOP 341.1.004 - UKNEQAS Immunocytochemistry SOP 341.1.003 - UKNEQAS Cellular Pathology - General Pathology Module. SOP 341.1.003a - UKNEQAS Cellular pathology - Muscle Histochemistry. SOP 326.9.006 - Internal assessment of quality of Histological Preparations. SOP 327.2.004 - Writing Surgical reports. SOP 321.1.054 - Revised Reports. SOP 321.1.054 - Revised Reports. SOP 321.1.055 - Reporting frozen sections. SOP 326.2.004a - Muscular biopsy report. SOP 326.2.004c – Bone marrow trephine templateSOP 321.1.042 - Oncology reporting. SOP 326.4.341 - Macroscopic description of singleton placenta. SOP 326.4.342 - Macroscopic description of placenta - twin SOP 326.4.341a - Placental histology comments SOP 350.1.103 Fetal and perinatal MRI report template
END		