


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2022	NHS Tayside	
	Issue No: 008	Issue date: 12 May 2025
	Pathology Department Level 6 Ninewells Hospital Dundee DD1 9SY	Contact: Nicola Robson Tel: +44 (0)1382 632666 E-Mail: nicola.robson@nhs.scot Website: www.nhstayside.scot.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
Address Pathology Department Level 6 Ninewells Hospital Dundee DD1 9SY	Nicola Robson Routine Histopathology Special Stains Immunocytochemistry Frozen Section Histology Cytology -Diagnostic

Site activities performed away from the locations listed above:

Location details	Activity
Mortuary Department Level 5 Ninewells Hospital Dundee DD1 9SY	Nicola Robson Mortuary services
Mohs clinic at Dermatology OP Ninewells Hospital Dundee DD1 9SY	Nicola Robson Preparation of slides



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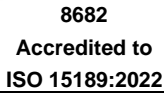
NHS Tayside

Issue No:008 Issue date: 12 May 2025

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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>Air Dried Preparations CSF's, body fluids, CT Lung, Thyroid</p> <p>Wet fixed Preparations urines, Bronchial specimens, FNA's, Thyroid, body fluids</p> <p>Slides prepared in house as above</p>	<p><u>Diagnostic Cytology examinations to assist in clinical investigations</u></p> <p>Processing and Staining of Diagnostic Specimens for detection of abnormal cells</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>In House documented procedure & manufacturer's instructions using the following equipment</p> <p>Rapid Diff 11 Stain kit LCD018 LCD009 LCD007 LCD017 LCD025</p> <p>Leica Autostainer XL staining machine- PAP stain LCC018 Hologic T2000 processor LCC011 LCD008 LCD006, LCD005, LCD017, LCD025, LCD007</p> <p>SOP PPP 062 Microscopy</p>



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Routine Histopathology examinations to assist in clinical investigations</u>	In House documented procedure & manufacturer's instructions using the following equipment
Tissue samples		Specimen Dissection Manual method using documented procedures in the range PPP001 through to PPP065
		Decalcification LHR015 Operation of the Faxitron Pathvision
		Tissue processing Documented procedure & manufacturer's instructions using Leica Peloris LHM021 Processing / Embedding Room LHM023 Processing Room Daily Duties LHM034 Leica Peloris Processor
		Tissue embedding LHM025 Embedding Procedure LHM024 Tissue Tek Embedding Centres
		Tissue sectioning Manual method using documented procedure LHM003 Microtomy
	Identification of basophilic and eosinophilic structures	Routine staining (H&E) Documented procedure & manufacturer's instructions using Leica Stainer LHM004 Use and Maintenance of Coverslipper and Leica Autostainer



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<p><u>Routine Histopathology examinations to assist in clinical investigations (cont'd)</u></p> <p>Frozen Section Histology examinations to assist in clinical investigations Detection of abnormal cells</p> <p><u>Special staining of Histopathology examinations to assist in detection of clinical abnormalities</u></p> <p>Acid and Neutral Mucins</p> <p>Acid Fast Tubercle Bacilli</p> <p>Amyloid</p> <p>Argentaffin Cells/Carcinoid Tumour</p> <p>Connective tissue/Collagen/Muscle</p> <p>Connective tissue/ Collagen/Muscle/Fibrin</p>	<p>In House documented procedure & manufacturer's instructions using the following equipment</p> <p>In House manual methods and manufacturer's instructions Using the Thermo Shandon and Leica Cryostats and rapid H&E stain</p> <p>LHM008 Frozen Sections</p> <p>LHM027 Mohs micrographic Surgery Technique</p> <p>LHM030 Slide freezing Technique for Mohs Surgical Specimens</p> <p>LHM031 Relaxation cuts for Mohs Surgical Specimens</p> <p>LHM035 Procedure for High Risk Mohs Specimens</p> <p>LHI022 Procedures for Freezing Tissues for the Cryostat</p> <p>LHM038 Alcian Blue Stains</p> <p>LHM069 Ziehl Neelsen</p> <p>LHM039 Congo Red</p> <p>LHM061 Singh</p> <p>LHM051 Masson Trichrome</p> <p>LHM065 Van Gieson</p> <p>LHM050 Martius Scarlet Blue (MSB)</p>



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Special staining of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In House documented procedure & manufacturer's instructions using the following equipment
Tissue samples	Elastic Fibres	LHM 041Elastic Stains
	Fungi	LHM043 Grocott Gomori Methenamine Silver LHM055 Periodic Acid Schiff
	Glycogen/Neutral Mucins/Fungi	LHM055 Periodic Acid Schiff (PAS) and PAS alpha amylase
	Gram +ve & Gram -ve Organisms	LHM045 Gram
	Haemosiderin / Acid Mucins	LHM057 Perls
	Helicobacter/Micro-organisms / Chromaffin / Giardia	LHM044 Giemsa Modified for Helicobacter and Overnight for parasites and Chromaffin Granules
	Hepatitis B affected Cells/Copper associated protein	LHM053 Orcein
	Melanin/Argentaffin/Chromaffin/some Lipofuscin	LHM061 Singh
	pH1 Sulphated Acid Mucins/pH2.5 Acid Mucins	LHM038 Alcian Blue Stains (pH1 & pH2.5)



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities</u>	In house documented procedures & manufacturer's instructions
Tissue samples & Cell blocks	Embryonic cells in normal tissues and germ tumours	Roche Ventana Benchmark system – and SOP series LHI 001 to LHI 063
	Smooth muscle cells, myoepithelial cells	Using antibodies to and microscopy;- a-1-Fetoprotein
	Anaplastic Large Cell Lymphoma's (ALCL's)	Actin, smooth muscle
	Androgen Receptor positive cells	ALKinase
	B cells, follicular lymphomas	Androgen Receptor
	B cells, lymphomas	Bcl-2
	B cells, plasma cells	Bcl-6 Protein
	Ovarian epithelial malignancies, seminal vesical carcinoma, anaplastic lymphoma	Bob-1 (C20)
	Parafollicular cells in thyroid and medullary thyroid carcinomas	CA125
		Calcitonin



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Tissue samples & Cell blocks (cont'd)		Roche Ventana Benchmark system – and SOP series LHI 001 to LHI 063
		Using antibodies to and microscopy; -
	Smooth muscle cells	Caldesmon
	Marker for mesotheliomas	Calretinin
	Mature B cells, follicular dendritic cells, CALLA	CD10 (CALLA)
	Various - mast cells, stem cells, Cajal cells, melanocytes, basal cells (skin) and mammary duct epithelium	CD117 (c-kit)
	Plasma cells	CD138 (Syndecan-1)
	Granulocytes, Reed-Sternberg cells	CD15 (Leu-M1)
	Langerhans cells	CD1a
	T cells	CD2(LFA-2) , CD3
	B cell	CD20 (CD20cy)
	Mature B cells, Follicular dendritic cell	CD21
	B cells, some T cell	CD23
	Reed-Sternberg cells, plasma cells	CD30 (Ki-1)
	Endothelial cells	CD31
	Myeloid cells	CD33



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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Tissue samples & Cell blocks (cont'd)</p>	<p><u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u></p> <p>T cells (helper & mature)</p> <p>T and B cell Lymphoma's</p> <p>Leucocytes</p> <p>Mature T cells, T cell lymphomas</p> <p>Natural killer cells, neuroendocrine tissues</p> <p>Platelets, megakaryocytes, macrophages, endothelial cells</p> <p>Macrophages, monocytes, myeloid cells</p> <p>T cells. Natural killer cells, thymocytes</p> <p>B cells</p> <p>T cells</p> <p>Tumours including Ewings Sarcoma, & T cell lymphoma</p> <p>Intestinal epithelial cells, colorectal + other adenocarcinomas</p>	<p>In house documented procedures & manufacturer's instructions cont</p> <p>Roche Ventana Benchmark system – and SOP series LHI 001 to LHI 063</p> <p>Using antibodies to and microscopy; -</p> <p>CD4</p> <p>CD43 (Qbend10)</p> <p>CD45(LCA)</p> <p>CD5</p> <p>CD56(N-CAM)</p> <p>CD57</p> <p>CD61</p> <p>CD68 (Routine PG M1)</p> <p>CD7</p> <p>CD79a</p> <p>CD8</p> <p>CD99 (MIC2)</p> <p>CDX2</p>



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Tissue samples & Cell blocks (cont'd)		Roche Ventana Benchmark system – and SOP series LHI 001 to LHI 063
	CEA glycoproteins	Using antibodies to and microscopy; - CEA
	Tissues of neuroendocrine origin	Chromogranin A
	Basal cells, filamentous keratins form glandular to stratified squamous, prostate adenocarcinoma	CK, HMW (34BE12)
	Expressed in variety tumours	Cyclin D1
	Pan cytokeratin (broad range)	Cytokeratin, MNF116
	Epithelial cells	Cytokeratin 14
	Epithelial cells including ductal and glandular epithelia	Cytokeratin 19
	Adenocarcinomas, columnar epithelial cells	Cytokeratin 20
	Stratified squamous epithelium, basal cells, mesotheliomas	Cytokeratin 5/6
	Normal and neoplastic epithelia	Cytokeratin 7
	Pan cytokeratin (broad range)	Cytokeratin AE1/AE3
	Epithelial cells	Cytokeratin, Cam 5.2
	Cytomegalovirus	Cytomegalovirus
	Lymphatic vessels	D2-40
	Striated and smooth muscle cells	Desmin



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Tissue samples & Cell blocks (cont'd)	Gastrointestinal Stromal tumours (GIST)	Roche Ventana Benchmark system – and SOP series LHI 001 to LHI 063
	Epstein Barr Encoded RNA expressing cells	Using antibodies to and microscopy; - DOG-1 EBER ISH
	Normal duct epithelial cells, ductal carcinoma	E-Cadherin
	Normal and neoplastic epithelium	EMA
	Epithelial cells, most adenocarcinomas	EP4
	Nuclei of cells containing a high level of oestrogen	Estrogen Receptor
	V.W factor in endothelial cells	Factor XIIIa
	Breast carcinoma's	GCDFP-15
	Urothelial / Breast carcinoma	GATA3
	Erythrocytes	Glycophorin A



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Tissue samples & Cell blocks (cont'd)		Roche Ventana Benchmark system – and SOP series LHI 001 to LHI 063
		Using antibodies to and microscopy; -
	Placental trophoblasts	hCG
	Breast carcinoma's expressing HER-2	HER – 2
	Melanoma, melanocyte differentiation	HMB45
	Sex chord stromal tumours	Inhibinin, alpha
	Proliferating Cells	Ki67
	B cells and plasma cells	Kappa
	B cell follicles	Lambda
	Non Small Cell Lung Carcinoma's (NSCLC)	Lung ALK



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Tissue samples & Cell blocks (cont'd)		Roche Ventana Benchmark system – and SOP series LHI 001 to LHI 063
		Using antibodies to and microscopy; -
	Melanoma marker	Melan A
	Granulocytes and monocytes	MPO
	Lympho-haemopoietic tumours	MUM1
	Rhabdomyosarcoma	MyoD1
	Myoepithelial cells	Myosin Heavy Chain (Smooth muscle)
	B Cell lymphomas, germinal centre derived lymphomas	Oct 2
	Germ cell tumours, seminomas	OCT 4
	Various tumours	P16 Protein
	Breast, colon, lung and urothelial carcinoma's	P53 (DO-7)
	Prostate basal cells, proliferative cells, glandular epithelium	P63
	B Cells	PAX-5



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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Tissue samples & Cell blocks (cont'd)</p> <p>Slides prepared in house as above</p>	<p><u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities</u> (cont'd)</p> <p>Cells of mesenchymal origin Epithelial cells and smooth muscle in fallopian tube.</p> <p>B Cells / Plasma Cells B Cell Follicles</p> <p>Wilms tumour</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>In house documented procedures & manufacturer's instructions (cont'd)</p> <p>Roche Ventana Benchmark system – and SOP series LHI 001 to LHI 063</p> <p>Using antibodies to and microscopy; -</p> <p>Vimentin</p> <p>Kappa ISH Lambda ISH</p> <p>Wilm's Tumour (WT1)</p> <p>SOP PPP 062 Microscopy</p>
END		