


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL 8816</p> <p>Accredited to ISO 15189:2022</p>	<h3>NHS Fife</h3> <p>Issue No: 010 Issue date: 08 January 2025</p>	
	<p>Department of Cellular Pathology North Laboratories Hayfield Road Kirkcaldy Fife KY2 5AH</p>	<p>Contact: Derek Selbie Tel: +44 (0) 1592 643355 ext 28488 Fax: +44 (0) 1592 648170 E-Mail: Selbie Derek (NHS FIFE) (derek.selbie@nhs.scot)</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity
<p>Address As Above</p>	<p>Local contact Derek Selbie</p>	<p>Routine Histology, Immunocytochemistry Diagnostic Cytology</p>

Location details		Activity
<p>Mortuary Victoria Hospital Hayfield Road Kirkcaldy Fife KY2 5AH</p>	<p>As above</p>	<p>Mortuary activities, Body Storage</p>
<p>Body Store Queen Margaret Hospital Dunfermline Fife KY12 0SU</p>	<p>As above</p>	<p>Body Storage</p>



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY SAMPLES	<u>Diagnostic Cytopathology (Non-Gynae) examination activities for the purposes of clinical diagnosis</u>	In House documented procedure & manufacturer's instructions using series VLNL 015 – 021 and the following equipment:
Air Dried Preparations - Body fluids, CSFs	Processing and Staining of Diagnostic Specimens for detection of abnormal cells	Romanowsky Manual method using documented procedure VLNM 001
Wet Fixed Preparations – Body fluids, urine, CSFs, aspirates, EUSFNA	Demonstration of: Cells (nuclei and cytoplasm)	Automated PAP staining using Leica Autostainer and Leica CV5030 Coverslippers - ALAL 002 and ALAL 004.
Fine needle aspirates Breast, Thyroid, Lymph nodes	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities	Wet Fixed Preparations Leica CV5030 coverslipper ALAL 002
Fine needle aspirates Breast, Thyroid, Lymph nodes etc	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities	Air Dried Preparations Thermo Scientific Sorvall centrifugation ST16 Hologic Genesis Processor Thermo Cytospin 4 VLNL 001 VLNL 028 VLNL 005
Endobronchial Ultrasound surgery samples (EBUS)	Preparation of tissue clots form EBUS samples	Receipt and preparation of EBUS specimens VLNL026 Thermo Scientific Sorvall centrifuge-VLNL 001



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HUMAN BODY SAMPLES (cont'd)	<u>Routine Histopathology examinations to assist in clinical investigations (cont'd)</u>	In House documented manual methods and manufacturer's instructions
FFPE Tissue samples and Agar clots including EBUS	Basophilic and eosinophilic cells	Documented procedure & manufacturer's instructions using Leica Autostainer-ALAL004 and Leica CV5030 coverslipper Routine staining (H&E)
FFPE Tissue Samples	<u>Special staining of Histopathology examinations to assist in detection of clinical abnormalities</u>	In House documented procedure of manual methods using series VLHM 001 – 035 and Microscopy
	Acid Mucins	Alcian Blue pH 2.5
	Acid and Neutral Mucins	Alcian Blue PAS +/- Diastase
	Acid Fast Tubercle Bacilli	Ziehl Neelsen
	Amyloid	Congo Red (Highmans)
	Calcium	Von Kossa
	Connective tissue/Collagen/Muscle	Masson Trichrome Van Gieson
	Connective tissue/Collagen/Muscle/Fibrin	Martius Scarlet Blue (MSB)
	Elastic Fibres	Elastic Haematoxylin & Eosin Elastic Stain
	Fungi	Grocott Gomori Methenamine Silver
	Glycogen/Neutral Mucins/Fungi	Periodic Acid Schiffs (PAS) +/- Diastase
	Gram +ve & Gram -ve Organisms	Gram Stain
	Haemosiderin	Perls Prussian Blue
	Helicobacter/Micro-organisms	Modified Giemsa
	Hepatitis B affected Cells/Copper associated protein	Shikata's Orcein



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HUMAN BODY SAMPLES (cont'd)	<u>Special staining of Histopathology examinations to assist in detection of clinical abnormalities</u> (cont'd)	In House documented procedure of manual methods using series VLHM 001 – 035 and Microscopy
FFPE Tissue samples (cont'd)	Mast Cells	Toluidine Blue
	Melanin/Argentaffin/Chromaffin/some Lipofuscin	Masson Fontana
	Removal of Melanin	Melanin Bleach
	Mycobacterium Leprae	Wade-Fite
	Nuclei	Celestin Blue-Haematoxylin
	Reticulin Fibres	Gordon & Sweet's Reticulin
	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities</u>	In house documented procedures & manufacturer's instructions using Roche Ventana Benchmark Ultra system – SOP VLIL 003 & 005 and Leica CV5030 coverslipper Using antibodies to and microscopy;-
FFPE Tissue samples & Cell blocks/Agar clots including EBUS	Anaplastic Large Cell Lymphoma's (ALCL's)	ALK1
	Embryonic cells in normal tissues and germ tumours	AFP
	B cells, follicular lymphomas	Bcl-2
	B cells, lymphomas	Bcl-6 Protein
	B cells, plasma cells	Bob-1
	Ovarian epithelial malignancies, seminal vesical carcinoma, anaplastic lymphoma	CA125
	Parafollicular cells in thyroid and medullary thyroid carcinomas	Calcitonin
	Smooth muscle cells	Caldesmon
	Marker for mesotheliomas	Calretinin



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HUMAN BODY SAMPLES (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In house documented procedures & manufacturer's instructions using Roche Ventana Benchmark Ultra system – SOP VLIL 003 & 005 and Leica CV5030 coverslipper Using antibodies to and microscopy;-
FFPE Tissue samples & Cell blocks/Agar clots including EBUS (cont'd)	<p>Mature B cells, follicular dendritic cells</p> <p>Various - mast cells, stem cells, Cajal cells, melanocytes, basal cells (skin) and mammary duct epithelium</p> <p>Plasma cells</p> <p>Granulocytes, Reed-Sternberg cells</p> <p>Langerhans cells</p> <p>T cells</p> <p>B cell</p> <p>Mature B cells, Follicular dendritic cell</p> <p>B cells, some T cell</p> <p>Reed-Sternberg cells, plasma cells</p> <p>Endothelial cells</p> <p>Myeloid cells</p> <p>Acute leukaemia, and differential diagnosis of poorly differentiated malignant tumours.</p> <p>T cells (helper & mature)</p> <p>T and B cell Lymphoma's</p> <p>Leucocytes</p> <p>T cells and the B1a subset of human B cells found in the follicular mantle zones</p>	<p>CD10</p> <p>CD117 (c-kit)</p> <p>CD138 (Syndecan-1)</p> <p>CD15 (Leu-M1)</p> <p>CD1a</p> <p>CD2, CD3</p> <p>CD20 (CD20cy)</p> <p>CD21</p> <p>CD23</p> <p>CD30 (Ki-1)</p> <p>CD31</p> <p>CD33</p> <p>CD34 (Qbend 10)</p> <p>CD4</p> <p>CD43</p> <p>CD45(LCA)</p> <p>CD5</p>



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<p>HUMAN BODY SAMPLES (cont'd)</p> <p>FFPE Tissue samples & Cell blocks/Agar clots including EBUS (cont'd)</p>	<p><u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u></p> <p>Natural killer cells, neuroendocrine tissues</p> <p>Platelets, megakaryocytes, macrophages, endothelial cells</p> <p>T cells. Natural killer cells, thymocytes</p> <p>B cells</p> <p>T cells</p> <p>Wide range of tumours including Ewing's Sarcoma, & T cell lymphoma Intestinal epithelial cells, colorectal + other adenocarcinomas</p> <p>CEA glycoproteins</p> <p>Tissues of neuroendocrine origin</p> <p>Basal cells, filamentous keratins form glandular to stratified squamous, prostate adenocarcinoma</p> <p>Expressed in a range of tumours</p> <p>Pan cytokeratin (broad range)</p> <p>Epithelial cells</p> <p>Epithelial cells including ductal and glandular epithelia</p> <p>Adenocarcinomas, columnar epithelial cells</p> <p>Stratified squamous epithelium, basal cells, mesotheliomas</p>	<p>In house documented procedures & manufacturer's instructions using Roche Ventana Benchmark Ultra system – SOP VLIL 003 & 005 and Leica CV5030 coverslipper Using antibodies to and microscopy;-</p> <p>CD56(N-CAM) and</p> <p>CD57</p> <p>CD68 (PG M1 and KP1)</p> <p>CD7</p> <p>CD79a</p> <p>CD8 CD99 (MIC2) CDX2</p> <p>CEA</p> <p>Chromogranin A</p> <p>CK, HMW (34BE12)</p> <p>Cyclin D1</p> <p>Cytokeratin, MNF116</p> <p>Cytokeratin 14</p> <p>Cytokeratin 19</p> <p>Cytokeratin 20</p> <p>Cytokeratin 5/6</p>



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FFPE Tissue samples & Cell blocks/Agar clots including EBUS (cont'd)	Normal and neoplastic epithelia Pan cytokeratin (broad range) Epithelial cells Cytomegalovirus Lymphatic Epithelium Striated and smooth muscle cells Gastro Intestinal Stromal tumours (GIST) Epstein-Barr Virus Normal duct epithelial cells, ductal carcinoma Normal and neoplastic epithelium Epithelial cells, most adenocarcinomas Nuclei of cells containing a high level of oestrogen Luminal marker for breast epithelium Cytotoxic T Lymphocytes, Natural Killer cells Anti-Glycophorin A for erythroid leukaemia. Placental trophoblasts Melanoma, melanocyte differentiation Mitochondrial antigens of Hepatocytes	Cytokeratin 7 Cytokeratin AE1/AE3 Cytokeratin, Cam 5.2 Cytomegalovirus D240 Desmin DOG-1 EBV, LMP1 E-Cadherin EMA EP4 Estrogen Receptor GATA 3 Granzyme B Glycophorin A hCG HMB45 HSA



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FFPE Tissue samples & Cell blocks/Agar clots including	Sex chord stromal tumours	Inhibin
EBUS (cont'd)	Proliferating Cells	Ki-67
	Melanoma marker	Melan A
	Granulocytes and monocytes	Myeloperoxidase
	Lympho-haemopoietic tumours	MUM1
	Prostatic lesions	NKX3.1
	Peripheral nerves, neuroendocrine tumours	NSE
	B Cell lymphomas, germinal centre derived lymphomas	Oct 2
	Germ cell tumours, seminomas	OCT 3/4
	Various tumours	P16 Protein
	Squamous and Basal Cell Carcinoma's	P40
	Breast, colon, lung and urothelial carcinoma's	P53 (DO-7)
	Prostate basal cells, proliferative cells, glandular epithelium	P63
	B Cells	PAX-5
	Various Carcinomas	PAX-8
	Germ cell tumours, seminomas	Plac Alk Phos (PLAP)
	Nuclei of cells showing expression of Progesterone	Progesterone

