


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	University Hospitals Birmingham NHS Foundation Trust	
	Issue No: 004 Issue date: 22 January 2021	
	New Queen Elizabeth Hospital Birmingham Mindelsohn Way Edgbaston Birmingham B15 2GW	Contact: Martin Collard Tel: +44 (0) 121 371 3343 E-Mail: Martin.Collard@uhb.nhs.uk Website: https://www.uhb.nhs.uk/laboratory-services-contact.htm
Testing performed at the above address only		

Site activities performed away from the locations listed above:

Location details		Activity
Address Mortuary New Queen Elizabeth Hospital Birmingham Mindelsohn Way Edgbaston, Birmingham B15 2GW	Local Contact Martin Collard	Body Storage



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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 TISSUE AND FLUIDS</p> <p>Fresh Tissue Frozen Tissue</p> <p>Mohs collected tissue</p>	<p><u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u></p>	<p>Macroscopic and Microscopic examination:</p> <p>Specimen Dissection Manual Method using documented procedures SOP's PDI_S002 to PDI_S047</p> <p>Tissue Processing Documented procedures and manufacturer's instructions using Sakura Tissue- Tek VIP 6; Thermo Scientific Pathcentre and Excelsior (SOPs PDI_S016 and PDI_S033)</p> <p>SOP:PDI_S012 Micrographic Skin Specimens (Mohs) Frozen section procedure and manufacturer's instructions using Leica Cryostats CM1850 SOP: PDI_S020</p> <p>Tissue embedding In-house documentation and Manufactures instructions for the Thermo Shandon HistoStar embedding workstation (SOPs PGH_S029)</p> <p>Tissue sectioning (Microtomy) Manual and semi-automated method using SOP PGH_S031 Leica Rotary Microtome's; PFM microtome's; Thermo Shandon (semi-automated)</p> <p>Documented procedure and manufactures instructions for Leica XL Autostainer / Cover slipper (SOP PGH_S046)</p> <p>Decalcification of tissue samples included in SOPs PDI_S013 and PID_S027</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)	Macroscopic and Microscopic examination:
Formalin fixed tissue processed to paraffin wax (FFPE) Fresh tissue Frozen Tissue	Tissue architecture and nuclear detail (Identification of basophilic and eosinophilic structures)	Routine Staining (H&E) using Leica XL Autostainer / Cover slipper (SOP PGH_S046) Leica and Nikon Light Microscopes; Olympus; Zeiss (SOP PGH_S046)
Formalin fixed tissue processed to paraffin wax (FFPE)	Detection of the following:	In house documented procedures for Special Staining (manual):
	Elastin Fibres	Elastin van Gieson Stain (EVG) (PSS_S001)
	Collagen, connective tissue	Haematoxylin Van Gieson (HVG) (PSS_S005)
	Gram positive and Gram negative organisms	Gram Stain (PSS_S033)
	Fungi, Pneumocystis	Gram Twort Stain (PSS_S002)
	Fibrin	Long Giemsa (Wilkin's Method) Stain (PSS_S007)
	Collagen, connective tissue	Martius, Scarlet and Blue (MSB) (PSS_S035)
	Helicobacter Pylori	Modified Giemsa PSS_S034
	Mucin	Modified Masson's Fontana Stain (PSS_S010)



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin fixed tissue processed to paraffin wax (FFPE)</p>	<p><u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p>Detection of the following:</p> <p>2µm glomerular basement membranes</p> <p>Copper associated protein, Hepatitis B Surface antigen</p> <p>Calcium deposits</p> <p>Mast Cells</p> <p>Helicobacter-type organisms</p> <p>Basophilic and eosinophilic (H&E) Structures</p> <p>Acid and Neutral mucins</p> <p>Acid Mucins</p> <p>Amyloid</p> <p>Carbohydrates / Fungal Organisms / Alpha-1- antitrypsin</p>	<p>Macroscopic and Microscopic examination:</p> <p>In house documented procedures for Special Staining (manual):</p> <p>Periodic Acid Schiff's (PAS) 2µm PSS_S015</p> <p>Rhodanine (PSS_S019)</p> <p>Shikata's Orcein (PSS_S014)</p> <p>Toluidine Blue PSS_S021</p> <p>Von Kossa Stain (PSS_S022)</p> <p>Dako Cover Stainer SOP PGH_S053</p> <p>In- house documented immunohistochemical procedures and manufacturer's instructions using Dako Artisan autostainer SOP PSS_S049</p> <p>Alcian Blue/ Periodic Acid Schiff's (ABPAS)</p> <p>Alcian Blue pH2.5 (AB)</p> <p>Congo Red</p> <p>Daistase Periodic Acid Schiff's (PASD)</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin fixed tissue processed to paraffin wax (FFPE)</p>	<p><u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p>Fungal organisms</p> <p>Iron</p> <p>Glomerular Basement Membranes</p> <p>Connective Tissue</p> <p>Carbohydrates / Fungal Organisms / Glomerular Basement Membranes</p> <p>Reticulin fibres at 3µm and at 2µm</p> <p>Spirochetes, Helicobacter pylori</p> <p>Acid Fast bacilli</p> <p>Smooth Muscle Cells. Myofibroblasts. Myoepithelial cells</p> <p>Alpha- Synuclein Protein</p>	<p>Macroscopic and Microscopic examination:</p> <p>In- house documented immunohistochemical procedures and manufacturer's instructions using Dako Artisan autostainer SOP PSS_S049</p> <p>Grocott;s Methenamine Silver (GMS)</p> <p>Iron Stain</p> <p>Jones' Methenamine Silver</p> <p>Masson's Trichrome</p> <p>Periodic Acid Schiff's (PAS)</p> <p>Reticulin-Nuclear Fast Red</p> <p>Warthin Starry (WS)</p> <p>Acid Fast Bacteria Stain (AFB)</p> <p>In- house documented immunohistochemical procedures and manufacturer's instructions using DAKO Autostainer Link 48 Platforms (Dako Envision FLEX+ detection system) SOP PIC_S001</p> <p>Actin, smooth muscle</p> <p>Alpha-Synuclein</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd) Formalin fixed tissue processed to paraffin wax (FFPE)	<p><u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p>Detection of the following:</p> <p>Beta-Catenin expressing cells</p> <p>Epithelial Cells</p> <p>Epithelial cells, Sialyl Lewis x containing glycolipids</p> <p>Carcinoembryonic Antigen positive cells</p> <p>Carcinoembryonic Antigen positive cells</p> <p>Epithelial Cells (colonic type)</p> <p>Dysferlin Protein</p> <p>Glutamine Synthetase expressing cells</p> <p>Hairy Cell Leukemia</p> <p>Plasma Cells. Lymphoid cells containing IgG</p> <p>Merosin protein</p> <p>Mesothelial Cells</p> <p>Prostate luminal epithelial cells.</p> <p>Alpha-Sarcoglycan Staining protein</p> <p>Spectrin expressing cells. Erythrocytes</p>	<p>Macroscopic and Microscopic examination:</p> <p>In- house documented immunohistochemical procedures and manufacturer's instructions using DAKO Autostainer Link 48 Platforms (Dako Envision FLEX+ detection system) SOP PIC_S001</p> <p>Beta-Amyloid (A4)</p> <p>BOB-1</p> <p>CA-19.9</p> <p>Carcinoembryonic Antigen (CEA)</p> <p>Carcinoembryonic Antigen (CEA) (polyclonal)</p> <p>Cytokeratin</p> <p>Dysferlin</p> <p>Glutamine Synthetase</p> <p>Hairy cell Leukemia</p> <p>IgG Gamma chains</p> <p>Merosin Alpha</p> <p>Mesothelial Cell</p> <p>PSA</p> <p>Alpha- Sarcoglycan Staining</p> <p>Spectrin</p>



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HUMAN BODY TISSUE AND FLUIDS (CONTD): Formalin fixed tissue processed to paraffin wax (FFPE)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd):</u> Detection of the following:	Macroscopic and Microscopic examination: In- house documented immunohistochemical procedures and manufacturer's instructions using Dako Omnis immunostainer SOP PIC_S053, DAKO Autostainer Link 48 Platforms (Dako Envision FLEX+ detection system) SOP PIC_S001
	AE1/ AE3- Epithelial Tumours cells	AE1/ AE3
	Alpha-1-antitrypsin- expressing cells (A1A)	Alpha-1-antitrypsin- expressing cells (A1A)
	Beta- catenin expressing cells	Beta-catenin
	BCL2 Oncoprotein expressing cells	BCL2
	Large B-cell lymphoma/ Follicular lymphoma / Burkitts Lymphoma	BCL6
	Epithelial tissue	Broad Spectrum Cytokeratin (MNF116)
	BSAP expressing B-Cells	BSAP
	CA19.9 expressing cells	CA19.9
	CA 125 expressing cells	CA125
	Calponin Expressing cells	Calponin
	Prostate Basal Cells / tonsil epithelial cells / Squamous cell carcinoma (Lung)	CK5
	Glandular epithelial cells / transitional epithelial cells	CK7
	Cytokeratin 8 expressing cells	CK8
	Cytokeratin 8/18 expressing cells	CK8/18
	Cytokeratin 20	Cytokeratin 20



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HUMAN BODY TISSUE AND FLUIDS (CONTD): Formalin fixed tissue processed to paraffin wax (FFPE)	<p><u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd):</u></p> <p>Detection of the following:</p> <p>Basal Cells / Squamous epithelium</p> <p>CD1a expressing cells</p> <p>CD123 expressing Cells</p> <p>CD3- T-Cells</p> <p>CD4 T-cells</p> <p>CD5 expressing cells</p> <p>CD7- T Cells</p> <p>CD8 Expressing cells</p> <p>CD14 expressing cells</p> <p>CD15 – mature granulocytes / mononuclear Hodgkin's cells / Reed-Sternberg cells</p> <p>CD19 expressing B Cells</p> <p>CD20 - B cells</p> <p>CD21- Follicular dendritic cells / B-cells</p> <p>CD23 expressing cells</p> <p>CD30 expressing cells</p> <p>CD31- Endothelial cells</p>	<p>Macroscopic and Microscopic examination:</p> <p>In- house documented immunohistochemical procedures and manufacturer's instructions using Dako Omnis immunostainer SOP PIC_S053</p> <p>High Molecular Weight Cytokeratin (34BE12)</p> <p>CD1a</p> <p>CD123</p> <p>CD3</p> <p>CD4</p> <p>CD5</p> <p>CD7</p> <p>CD8</p> <p>CD14</p> <p>CD15</p> <p>CD19</p> <p>CD20</p> <p>CD21</p> <p>CD23</p> <p>CD30</p> <p>CD31</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (CONTD):</p> <p>Formalin fixed tissue processed to paraffin wax (FFPE)</p>	<p><u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd):</u></p> <p>Detection of the following:</p> <p>Leutenizing Hormone</p> <p>Melan- A expressing cells</p> <p>Melanocytes</p> <p>Mucin 1 expressing cells (CD227)</p> <p>MUM-1- B Cells in the light zone of the germinal centre/ plasma cells / activated T-Cells</p> <p>Myeloperoxidase Expressing cells</p> <p>Neurofilament Protein – expressing cells</p> <p>Neuronal cell</p> <p>Oestrogen Receptor status</p> <p>P16 expressing cells</p> <p>P53 Protein</p> <p>Pax-8 expressing cells</p> <p>Podoplanin expressing cells</p> <p>Progesterone Receptor</p> <p>Prolactin expressing cells</p> <p>Prostate Specific antigen expressing cells</p>	<p>Macroscopic and Microscopic examination:</p> <p>In- house documented immunohistochemical procedures and manufacturer's instructions using Dako Omnis immunostainer SOP PIC_S053</p> <p>Leutenizing Hormone (LH)</p> <p>Melan-A</p> <p>Melanosome</p> <p>MUC1</p> <p>MUM-1</p> <p>Myeloperoxidase</p> <p>Neurofilament Protein</p> <p>Neu-N</p> <p>Oestrogen Receptor</p> <p>P16</p> <p>P53</p> <p>Pax-8</p> <p>Podoplanin (D2-40)</p> <p>Progesterone Receptor</p> <p>Prolactin</p> <p>Prostatic specific antigen (PSA)</p>



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	Carcinoma of Prostate	In- house documented immunohistochemical procedures and manufacturer's instructions using Dako Omnis immunostainer SOP PIC_S053
	S100 expressing cells	Prostatic Acid Phosphatase (PSAP)
	Smooth Muscle cells / Myofibroblasts / Myoepithelial cells	S100
	Smooth Muscle myosin / Myoepitheial cells	Smooth Muscle Actin (SMA)
	Synaptophysin expressing cells	Smooth Muscle Myosin (SMMYO)
	Thyroid Stimulating hormone expressing cells	Synaptophysin
	Thyroid Transcription Factor -1 expressing cells	TSH
Slides Prepared in house as above	Morphological Assessment and interpretation / Diagnosis	TTF1
Fresh tissue		PAA_S018.
		Preparation and processing of specimens for electron microscopy using Leica EMTP Tissue Processor (SOP range PEM_S056 to PEM_S057; PEM_S063 to PEM_S072)
		Sectioning samples Semi-thin and ultrathin sections Leica Ultra cut UC7RT Ultra microtome (SOP PEM_S058; PEM_S072 to PEM_S077)



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<p>HUMAN BODY TISSUE AND FLUIDS (CONTD):</p> <p>Glutareldehyde Fixed Resin Embedded Tissue sections on glass slides prepared as above</p> <p>Fresh Tissue: Muscle</p> <p>Fresh Frozen Tissue: Muscle</p>	<p><u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd):</u></p> <p>Ultrastructural Examination and digital electron micrographs Semi-thin and Ultrathin sections to identify and exclude ultrastructural morphological abnormalities for the purpose of diagnosis.</p> <p><u>Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis:</u></p> <p>Mitochondrial Complexes</p> <p>Mitochondrial Complexes</p> <p>Basophilic and eosinophilic structures</p>	<p>Macroscopic and Microscopic examination:</p> <p>in-house documented procedures based on Electron Microscope equipment manuals and standard methods as specified below.</p> <p>Staining of electron microscope tissue sections: Toluidine Blue Staining Thionin Staining Uranyl Acetate Staining Lead Citrate Staining (SOP : PEM_S058)</p> <p>Light Microscope and FEI Technai G2 electron microscope (SOP PEM_S025 and PEM_S035)</p> <p>Receipt and preparation of the muscle tissue (SOP PMU_S058)</p> <p>Preparation and muscle tissue frozen sectioning using the Leica CM1850 UV Cryostat (SOP: PMU_S001)</p> <p>Cytochrome C Oxidase staining PMU_S010</p> <p>Gomori Trichrome staining PMU_S005</p> <p>Haematoxylin and Eosin staining PMU_S004</p>



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Fresh Frozen Tissue: Muscle	Demonstration of Lipofushin	Muscle Acid Phosphatase staining PMU_S013
	Demonstration of Lipofushin	Myosin Adenosine Triphosphatase Staining pH 9.4 & pH 4.6 PMU_S012
	MHC	Major Histocompatibility Complex PMU_S055
	NADH	NADH Staining PMU_S009
Fresh Frozen Tissue: Muscle	PAS +ve substances	Periodic Acid – Schiffs (PAS) Staining PMU_S007
	Phosphorylase activity	Phosphorylas staining
	SDH activity	Succinate Dehydrogenase staining
	Lipids	Sudan Black staining
Neuropathological tissue: Formalin fixed tissue processed to paraffin wax (FFPE) Fresh tissue Frozen Tissue		In- house documented immunohistochemistry procedures and manufacturer's instructions using DAKO Autostainer Link 48 Platforms (Dako Envision FLEX+ detection system) SOP PIC_S001
	Dystrophin (C-terminus) protein	Dystrophin (C-terminus)
	Dystrophin (Rod Zone) protein	Dystrophin (Rod Zone)
	Emerin Protein	Emerin
	Skeletal Muscle fast fibres	MHCf
	Skeletal muscle slow fibres	MHCs
	Myoepithelial Cells. Smooth muscle cells.	Myosin Heavy Chain/ smooth muscle



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<p>HUMAN BODY TISSUE AND FLUIDS (CONTD):</p> <p>Slides Prepared in house as above</p> <p>Air Dried Preparations. Body fluids, CSFs</p> <p>Wet fixed Preparations. Body fluids, urine, CSFs, aspirates, washings, brushings, EBUS</p> <p>FNA Air Dried Preparations: breast, thyroid, lymph node</p> <p>Slides Prepared in house as above</p>	<p><u>Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis:</u></p> <p>Morphological Assessment and interpretation / Diagnosis</p> <p><u>Diagnostic Cytology Examination to assist in clinical Investigation</u></p> <p>Preparation and examination of cellular material to identify or exclude cytological abnormalities</p> <p>Cellularity assessment</p> <p>Morphological Assessment and interpretation / Diagnosis</p>	<p>PAA_S018</p> <p>Macroscopic and Microscopic examination:</p> <p>In house documentation procedure and manufacturer's instructions using the following equipment. SOP Range PCY_S001 to PCY_S035</p> <p>Rotina Centrifuge Shandon Cytospin 4</p> <p>Processing and staining using Papanicolaou, modified Giemsa and H&E</p> <p>Thermos Scientific Linistain staining machine</p> <p>PAA_S018</p>
END		