


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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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin fixed tissue processed to paraffin wax (FFPE) Fresh tissue Frozen Tissue</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>Tissue architecture and nuclear detail (Identification of basophilic and eosinophilic structures)</p> <p>Detection of the following:</p> <p>Elastin Fibres</p> <p>Collagen, connective tissue</p> <p>Gram positive and Gram negative organisms</p> <p>Fungi, Pneumocystis</p> <p>Fibrin</p> <p>Collagen, connective tissue</p> <p>Helicobacter Pylori</p> <p>Mucin</p>	<p>Macroscopic and Microscopic examination:</p> <p>Routine Staining (H&E) using Leica XL Autostainer / Cover slipper (SOP PGH_S046)</p> <p>Leica and Nikon Light Microscopes; Olympus; Zeiss (SOP PGH_S046)</p> <p>In house documented procedures for Special Staining (manual):</p> <p>Elastin van Gieson Stain (EVG) (PSS_S001)</p> <p>Haematoxylin Van Gieson (HVG) (PSS_S005)</p> <p>Gram Stain (PSS_S033)</p> <p>Gram Twort Stain (PSS_S002)</p> <p>Long Giemsa (Wilkin's Method) Stain (PSS_S007)</p> <p>Martius, Scarlet and Blue (MSB) (PSS_S035)</p> <p>Modified Giemsa PSS_S034</p> <p>Modified Masson's Fontana Stain (PSS_S010)</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 (cont'd)</u></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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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)	Detection of the following:	In- house documented immunohistochemical procedures and manufacturer's instructions using DAKO Autostainer Link 48 Platforms (Dako Envision FLEX+ detection system) SOP PIC_S001
	Beta-Catenin expressing cells	Beta-Amyloid (A4)
	Epithelial Cells	BOB-1
	Epithelial cells, Sialyl Lewis x containing glycolipids	CA-19.9
	Carcinoembryonic Antigen positive cells	Carcinoembryonic Antigen (CEA)
	Carcinoembryonic Antigen positive cells	Carcinoembryonic Antigen (CEA) (polyclonal)
	Epithelial Cells (colonic type)	Cytokeratin
	Dysferlin Protein	Dysferlin
	Glutamine Synthetase expressing cells	Glutamine Synthetase
	Hairy Cell Leukemia	Hairy cell Leukemia
	Plasma Cells. Lymphoid cells containing IgG	IgG Gamma chains
	Merosin protein	Merosin Alpha
	Mesothelial Cells	Mesothelial Cell
	Prostate luminal epithelial cells.	PSA
	Alpha-Sarcoglycan Staining protein	Alpha- Sarcoglycan Staining
	Spectrin expressing cells. Erythrocytes	Spectrin



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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> Detection of the following:</p> <p>AE1/ AE3- Epithelial Tumours cells</p> <p>Alpha-1-antitrypsin- expressing cells (A1A)</p> <p>Beta- catenin expressing cells</p> <p>BCL2 Oncoprotein expressing cells</p> <p>Large B-cell lymphoma/ Follicular lymphoma / Burkitts Lymphoma</p> <p>Epithelial tissue</p> <p>BSAP expressing B-Cells</p> <p>CA19.9 expressing cells</p> <p>CA 125 expressing cells</p> <p>Calponin Expressing cells</p> <p>Prostate Basal Cells / tonsil epithelial cells / Squamous cell carcinoma (Lung)</p> <p>Glandular epithelial cells / transitional epithelial cells</p> <p>Cytokeratin 8 expressing cells</p> <p>Cytokeratin 8/18 expressing cells</p> <p>Cytokeratin 20</p>	<p>Macroscopic and Microscopic examination:</p> <p>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</p> <p>AE1/ AE3</p> <p>Alpha-1-antitrypsin- expressing cells (A1A)</p> <p>Beta-catenin</p> <p>BCL2</p> <p>BCL6</p> <p>Broad Spectrum Cytokeratin (MNF116)</p> <p>BSAP</p> <p>CA19.9</p> <p>CA125</p> <p>Calponin</p> <p>CK5</p> <p>CK7</p> <p>CK8</p> <p>CK8/18</p> <p>Cytokeratin 20</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: Epithelial Cells Epithelial membrane antigen expressing cells Epithelial tumour markers (AE1/ AE3) Epithelial antigen Epstein-Barr virus infected cells Follicular Stimulating Hormone expressing Cells Growth Hormone Expressing Cells Astrocytes Glypican 3 expressing cells Hepatitis B virus surface antigen Human Herpes virus (Type 8) latent nuclear antigen Herpes Simplex Virus -1 infected cells IDH (Isocitrate dehydrogenase) 1 IgG4 Expressing Cells Insulin expressing cells Ki-67 expressing cells	Macroscopic and Microscopic examination: In- house documented immunohistochemical procedures and manufacturer's instructions using Dako Omnis immunostainer SOP PIC_S053 EP4 Epithelial membrane Antigen (EMA) Epithelial tumour markers (AE1/ AE3) Epithelial Related antigen (ESA) Epstein -Barr Virus (EBV) FSH Growth Hormone Glial Fibrillary Acidic Protein (GFAP) Glypican-3 HBsAG HHV-8 CM HSV-1 IDH1 IgG4 Insulin Ki67



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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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<p>HUMAN BODY TISSUE AND FLUIDS (CONTD):</p> <p>Formalin fixed tissue processed to paraffin wax (FFPE)</p> <p>Slides Prepared in house as above</p> <p>Fresh tissue</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>Carcinoma of Prostate</p> <p>S100 expressing cells</p> <p>Smooth Muscle cells / Myofibroblasts / Myoepithelial cells</p> <p>Smooth Muscle myosin / Myoepitheial cells</p> <p>Synaptophysin expressing cells</p> <p>Thyroid Stimulating hormone expressing cells</p> <p>Thyroid Transcription Factor -1 expressing cells</p> <p>Morphological Assessment and interpretation / Diagnosis</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>Prostatic Acid Phosphatase (PSAP)</p> <p>S100</p> <p>Smooth Muscle Actin (SMA)</p> <p>Smooth Muscle Myosin (SMMYO)</p> <p>Synaptophysin</p> <p>TSH</p> <p>TTF1</p> <p>PAA_S018.</p> <p>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)</p> <p>Sectioning samples Semi-thin and ultrathin sections Leica Ultra cut UC7RT Ultra microtome (SOP PEM_S058; PEM_S072 to PEM_S077)</p>



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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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END		