


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS MEDICAL 10259 Accredited to ISO 15189:2022	Birmingham Women's and Children's NHS Foundation Trust	
	Issue No: 008 Issue date: 03 November 2025	
	Birmingham Women's Hospital Mindelsohn Way Edgbaston Birmingham B15 2TG	Contact: Michael Chorlton Tel: +44 (0) 121 333 9946 E-Mail: michael.chorlton1@nhs.net Website: www.bwc.nhs.uk
Testing performed at the above address only		

Site activities performed away from the locations listed above:

Location details	Activity
Address Lower Ground Floor Mindelsohn Way Edgbaston Birmingham B15 2TG	Local contact: Michael Chorlton
	Mortuary



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Blood</p> <p>Blood</p> <p>Blood</p>	<p><u>Haematology examinations to assist in clinical investigations</u></p> <p>Full Blood Count (FBC) analysis of the following parameters: WBC RBC HGB HCT MCV MCH MCHC RDW-CV PLT NEUT LYMPH MONO EOS BASO Reticulocyte count</p> <p>Glucose 6 Phosphate Dehydrogenase (G6PD) screen</p> <p>Reporting of normal and abnormal morphologies Nucleated red blood cell (NRBC) count</p>	<p>Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:</p> <p>Sysmex XN-2000 SOP: Haematology 2222 – FBC and Retic processing using Sysmex XN-2000 analysers</p> <p>Commercial kit - Trinity Biotech G6PDH Deficiency SOP: 59 G6PD screening test</p> <p>Hematek stain machine, Hematek commercial stain pack SOP: 64 Blood film preparation, examination and reporting</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examinations to assist in clinical investigations</u>	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: Documented -in-house methods to meet the requirements of the SCT screening programme as defined in the July 2018 NHS Sickle Cell and Thalassaemia Screening Programme: laboratory quality assurance evidence requirements
Blood	Detection of haemoglobin S (Hb-S)	Commercial kit Microgen Bioproducts S-Test Kit SOP: 83 - Sickle Solubility Test
Blood	Haemoglobinopathy screening for: - α and β thalassaemia and abnormal haemoglobins - Determination of HbA ₂ , HbF and HbS levels.	SEBIA Capillars 2 Flex Piercing analyser SOP: 79A Capillary Iso-electric focusing (CIEF) on Sebia Capillars2 Flex piercing
Citrated plasma	<u>Coagulation examination activities for the purpose of clinical diagnosis</u> - PT, INR - APTT 1. Fibrinogen Lupus anticoagulant screen and confirmation LMWH Anti Xa assay	Werfen ACL TOP 350 SOP: 85 Routine use of TOP 500 Werfen ACL TOP 350 SOP: 82 Lupus anticoagulant screening on TOP 500 Werfen ACL TOP 350 SOP: 87 LMW Heparin anti Xa assay on TOP 500



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<p>HUMAN BODY TISSUE</p> <p>Formalin fixed tissue processed to paraffin wax (FFPE). Fresh tissue Frozen Tissue</p>	<p><u>Cellular Pathology examination activities for the purposes of clinical diagnosis:</u></p> <p>Routine diagnostic examination of Histological specimens using the following:</p>	<p>Using in house methods: Dissection: Routine Surgical Trimming Procedures for Technical Staff – SOP 68386.</p> <p>Tissue Pathways for Gynaecological Pathology - External Document 1191.</p> <p>Embedding: using the Leica Arcadia Embedding Station & Coldplate & Leica EG 1150 Embedder.</p> <p>Specimen Embedding – SOP 68306.</p> <p>Microtomy: using the PFM 3004 / 3003, Anglia Scientific AS300 and Slee Cut 4060 Microtomes.</p> <p>Section Cutting – SOP 68294.</p> <p>Staining / Coverslipping: using the HistoCore Spectra Workstation (integrated stainer & coverslipper).</p> <p>Routine H&E Staining Using the Leica HistoCore Spectra Stainer – SOP 68295.</p> <p>Using the Leica HistoCore Spectra Workstation – SOP 2220.</p> <p>Cryomicrotomy: using the Leica CM1950 Cryostat.</p> <p>Urgent Specimens (Rapid Frozen Sections) – SOP 68274.</p> <p>Frozen Sections Using The Leica CM1950 Cryostat – SOP 68296.</p>



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<p>HUMAN BODY TISSUE</p> <p>10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE). Fresh tissue.</p>	<p><u>Cellular Pathology examination activities for the purposes of clinical diagnosis:</u></p> <p>Identification of nuclei, cell cytoplasm and most connective tissues in cells and tissues.</p> <p>Special staining of Histopathology examinations to assist in detection of clinical abnormalities.</p> <p>Acid mucins</p> <p>Neutral & acid mucins / glycogen</p> <p>Fungi, neutral mucins /glycogen</p> <p>Reticulin fibres</p> <p>Gram positive & negative bacteria</p> <p>Fungi</p> <p>Collagen, fibrin & muscle</p> <p>Elastic fibres, collagen & muscle</p> <p>Ferric iron</p>	<p>Documented In-house Methods and Manufacturer's instructions for Haematoxylin & Eosin stain: Routine H&E Staining Using the Leica HistoCore Spectra Stainer – SOP 68295</p> <p>Documented In-house Methods for special stains</p> <p>Alcian Blue Method (pH2.5) for Acid Mucin - SOP 68352</p> <p>Combined Periodic Acid Schiff (PAS) Reaction with Alcian Blue for the Demonstration of Acidic & Neutral Mucins, + Diastase (PASD) for the Demonstration of Glycogen – SOP 1188</p> <p>Periodic Acid Schiff (PAS) + Diastase (PASD) Reaction for the Demonstration of Glycogen & Neutral Mucins - SOP 68355</p> <p>Gordon and Sweet's Method for Reticulin Fibres - SOP 68358</p> <p>Gram Twort Method for Gram Positive & Gram Negative Micro-organisms - SOP 68359</p> <p>Grocott's Method for Fungi (Sliver Hexamine) - SOP 68360</p> <p>Masson Trichrome - SOP – 68365</p> <p>Verhoeff's Elastic Van Gieson - SOP 68372</p> <p>Prussian Blue (Perl's) Method for Iron III Compounds – SOP 68371</p>



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HUMAN BODY TISSUE	<u>Cellular Pathology examination activities for the purposes of clinical diagnosis:</u>	
10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE). Fresh tissue.	Identification of nuclei, cell cytoplasm and most connective tissues in cells and tissues.	Ziehl-Neelsen Stain for Tubercle Bacilli - SOP 68374
Frozen Tissue	Mycobacterium tuberculosis	Oil Red O Method for Lipids in Frozen Sections - SOP 68369
10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE). Fresh tissue	Lipids	Oil Red O Method for Lipids in Frozen Sections - SOP 68369
	Identification of cellular or tissue constituents (antigens) by means of antigen antibody interactions.	Documented In-house Methods and Manufacturer's instructions for Immunohistochemistry: Leica Bond Autostainer - SOP 924
	Ready to Use Antibodies:	
	Tissue epithelial in origin	AE1/AE3
	Adenocarcinoma vs malignant mesothelioma	βerEP4
	Smooth muscle tumours	Caldesmon
	Tumour cells in GIT carcinomas	CA19.9
	Adenocarcinoma – ovarian vs colorectal	CA125
	Gastric neoplasms	CDX2
	Non-neoplastic endometrial stroma. Neoplastic endometrial stromal tumours, Differentiation of primary clear cell gynaecological tumours from clear cell tumours metastatic to the gynaecological tract	CD10
	Stem cells, melanocytes, mast cells, germ cells	CD117



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<p>HUMAN BODY TISSUE</p> <p>10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE). Fresh tissue.</p>	<p><u>Cellular Pathology examination activities for the purposes of clinical diagnosis:</u></p> <p>Identification of cellular or tissue constituents (antigens) by means of antigen antibody interactions.</p> <p>Endothelial tumours</p> <p>Vascular & lymphatic tumours</p> <p>Leucocytes</p> <p>Neuroendocrine cells, NK cells</p> <p>T-cells, NK cells, Thymocytes</p> <p>Surface of GI cells, colon carcinoma</p> <p>Secretory granules of endocrine cells</p> <p>Mesothelioma, adenocarcinoma, ovarian sex chord stromal tumours</p> <p>Squamous epithelium and neoplasms of type</p> <p>Identifying mantle cell lymphomas (cyclin D1 positive) from CLL/SLL and follicular lymphomas (cyclin D1 negative)</p> <p>Glandular and transitional epithelia and neoplasia of type</p> <p>Normal GI epithelia and urothelium and neoplasia of type</p> <p>Rhabdomyosarcomas, leiomyomas, mesotheliomas</p> <p>Normal and neoplastic epithelial neoplasia</p>	<p>Documented In-house Methods and Manufacturer's instructions for Immunohistochemistry: Leica Bond Autostainer - SOP 924</p> <p>CD31</p> <p>CD34</p> <p>CD45 (LCA)</p> <p>CD56</p> <p>CD68</p> <p>CEA (Mono)</p> <p>Chromogranin</p> <p>Calretinin</p> <p>Cytokeratin 5</p> <p>Cyclin D1</p> <p>CK7</p> <p>CK20</p> <p>Desmin</p> <p>EMA</p>



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<p>HUMAN BODY TISSUE</p> <p>10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE). Fresh tissue.</p>	<p><u>Cellular Pathology examination activities for the purposes of clinical diagnosis:</u></p> <p>Identification of cellular or tissue constituents (antigens) by means of antigen antibody interactions.</p> <p>Expression of ER containing cells</p> <p>Breast carcinoma (primary & metastatic)</p> <p>Breast carcinoma and metastatic tumours</p> <p>Normal, reactive and neoplastic astrocytes</p> <p>Differentiation between benign and malignant liver diseases</p> <p>Melanocytes and melanomas</p> <p>Granulosa cell tumours</p> <p>Proliferative cells</p> <p>Melanocytes, melanomas</p> <p>Mismatch repair gene hMLH1 is a ubiquitous gene encoding the mismatch repair protein (MMR) known as MutL protein homolog 1 (MLH1). MLH1 is utilized by normal proliferating cells to repair point mutations that may occur during DNA replication. Antibody used to detect normal or loss of MLH1 expression.</p> <p>MutS protein homolog 2 (MSH2) is part of the mismatch repair (MMR) pathway which is utilized by normal proliferating cells to repair mutations that may occur during DNA replication. Antibody used to detect normal or loss of MSH2 expression.</p>	<p>Documented In-house Methods and Manufacturer's instructions for Immunohistochemistry: Leica Bond Autostainer - SOP 924</p> <p>Estrogen</p> <p>GATA3</p> <p>GCDFP-15</p> <p>GFAP</p> <p>Glypican 3</p> <p>HMB45</p> <p>Inhibin</p> <p>Ki67</p> <p>Melan A</p> <p>MLH1</p> <p>MSH2</p>



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<p>HUMAN BODY TISSUE</p> <p>10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE). Fresh tissue.</p>	<p><u>Cellular Pathology examination activities for the purposes of clinical diagnosis:</u></p> <p>Identification of cellular or tissue constituents (antigens) by means of antigen antibody interactions.</p> <p>MutS protein homolog 6 (MSH6) is part of the mismatch repair (MMR) pathway which is utilized by normal proliferating cells to repair mutations that may occur during DNA replication. Antibody used to detect normal or loss of MSH6 expression.</p> <p>Tumor cell nuclei of rhabdomyosarcomas</p> <p>Clear cell carcinoma</p> <p>HPV related high grade cervical intraepithelial squamous neoplasia and glandular neoplasia</p> <p>High grade serous carcinomas of the ovary</p> <p>Molar pregnancy</p> <p>Squamous differentiation in poorly differentiated carcinoma</p> <p>Cases of secretory carcinoma and congenital fibrosarcoma. Pan-TRK IHC can help determine whether translation occurs for novel NTRK rearrangements</p> <p>Parvovirus infected cells</p> <p>Renal cell carcinoma. Can also be used in distinguishing ovarian serous papillary carcinoma (PAX-2 positive) from primary breast carcinoma (PAX-2 negative)</p>	<p>Documented In-house Methods and Manufacturer's instructions for Immunohistochemistry: Leica Bond Autostainer - SOP 924</p> <p>MSH6</p> <p>Myo D1</p> <p>Napsin</p> <p>P16</p> <p>P53</p> <p>P57</p> <p>P63</p> <p>Pan-TRK</p> <p>Parvovirus</p> <p>PAX 2</p>



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<p>HUMAN BODY TISSUE</p> <p>10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE). Fresh tissue.</p>	<p><u>Cellular Pathology examination activities for the purposes of clinical diagnosis:</u></p> <p>Identification of cellular or tissue constituents (antigens) by means of antigen antibody interactions.</p> <p>Expressed in the female genital tract and in epithelial cells of endo cervix and endometrium</p> <p>To demonstrate Placental Alkaline phosphatase in the cells</p> <p>Postmeiotic segregation increased 2 (PMS2) is part of the DNA mismatch repair (MMR) pathway, which is utilized by normal proliferating cells to repair mutations that may occur during DNA replication. Antibody used to detect normal or loss of MSH2 expression.</p> <p>Expression of PGR containing cells</p> <p>SARS-CoV spike and SARS-CoV-2 spike proteins</p> <p>Cancer cells (including neuroendocrine tumor) of colorectal origin</p> <p>Smooth muscle cells, myoepithelial cells, leiomyosarcomas</p> <p>Malignant melanoma</p> <p>Malignant melanocytic tumours, Schwannoma</p> <p>Neuroendocrine cells and neoplasms</p> <p>Normal and neoplastic lung and thyroid cells</p> <p>Primary cells of mesenchymal origin in normal and neoplastic cells</p>	<p>Documented In-house Methods and Manufacturer's instructions for Immunohistochemistry: Leica Bond Autostainer - SOP 924</p> <p>PAX 8</p> <p>PLAP</p> <p>PMS2</p> <p>Progesterone</p> <p>SARS-CoV-2</p> <p>SATB2</p> <p>SMA</p> <p>SOX-10</p> <p>S100</p> <p>Synaptophysin</p> <p>TTF-1</p> <p>Vimentin</p>



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<p>HUMAN BODY TISSUE</p> <p>10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE). Fresh tissue.</p> <p>Gynae and non-gynae cytology cellular slide preparations provided by associated laboratory</p>	<p><u>Cellular Pathology examination activities for the purposes of clinical diagnosis:</u></p> <p>Identification of cellular or tissue constituents (antigens) by means of antigen antibody interactions.</p> <p>Primary F/Tube high grade serous Ca, Wilm's tumour, malignant mesotheliomas</p> <p>Concentrated Antibodies:</p> <p>Germ cell / Yolk sack tumours</p> <p>Beta Amyloid in brain tissue</p> <p>Adenocarcinoma, squamous cell carcinoma</p> <p>Normal/neoplastic tissue epithelial in origin</p> <p>Basement membrane protein in muscle</p> <p>Skeletal muscle – Slow type</p> <p>Skeletal muscle – Fast type</p> <p>Cytological assessment and interpretation/diagnosis</p>	<p>Documented In-house Methods:</p> <p>Documented In-house Methods and Manufacturer's instructions for Immunohistochemistry: Leica Bond Autostainer - SOP 924</p> <p>WT1</p> <p>AFP</p> <p>βAPP</p> <p>CAM5.2</p> <p>Pan CK</p> <p>α Laminin</p> <p>HC Myosin (S)</p> <p>HC Myosin (F)</p> <p>Cellular Pathology 1264 - Dissecting and Reporting Histology Cases</p>



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HUMAN BODY FLUIDS	<u>Andrological examination activities for the purposes of clinical diagnosis</u>	
Semen	<u>Post vasectomy:</u> Detection of sperm	Based on 2016 Laboratory guidelines for post vasectomy semen analysis: Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons) Manual method using large volume chambers/ manual microscopy and documented in-house procedure SOP Post Vasectomy Semen Analysis CP68300
Semen	<u>Fertility testing:</u> Volume pH Sperm morphology including TZI scoring and round cell count	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method and documented in-house procedure SOPs: Initial macroscopic evaluation of the semen sample. CP 68235 Instructions for the use of pH strips. CP 1075 Evaluation of sperm concentration. CP 68241 Evaluation of sperm morphology. CP 68234 Procedure for Romanowsky stain for morphology assessment CP 68234 Evaluation of sperm motility. CP 68239 Evaluation of sperm vitality CP 68224. Volume/weight Colorimetric strips Stained slides (Papanicolaou) microscopy (Bright field)



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HUMAN BODY FLUIDS (cont'd) Semen (cont'd)	<u>Andrological examination activities for the purposes of clinical diagnosis</u> (cont'd) <u>Fertility testing</u> (cont'd): Sperm concentration Sperm motility Sperm vitality	 Improved Neubauer counting chambers and Microscopy (Phase contrast) Microscopy (Phase contrast) Stained slide (Eosin/Nigrosin dye exclusion test) microscopy (Bright field)
END		