

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>10141</b> Accredited to ISO 15189:2022</p>	<b>University Hospitals Birmingham NHS Foundation Trust</b>	
	<b>Issue No: 013 Issue date: 26 November 2024</b>	
	<b>Queen Elizabeth Hospital Birmingham Mindelsohn Way Edgbaston Birmingham West Midlands B15 2GW</b>	<b>Contact: Saeeda Kauser Tel: +44 (0)121 371 3343/ (0)121 4240189 E-Mail: saeeda.kauser@uhb.nhs.uk Website: <a href="https://www.uhb.nhs.uk/laboratory-services-contact.htm">https://www.uhb.nhs.uk/laboratory-services-contact.htm</a></b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

Location details	Activity	Location code
<b>New Queen Elizabeth Hospital Birmingham Mindelsohn Way Edgbaston Birmingham B15 2GW</b>	<b>Local contact Martin Collard</b>  Histopathology Mohs Clinic Mortuary Services / Body Storage	A
<b>Birmingham Heartlands Hospital Bordesley Green Road Bordesley Green East Birmingham B9 5SS</b>	<b>Local contact Martin Collard</b>  Cytopathology Histopathology Mortuary Services / Body Storage	B
<b>Good Hope Hospital Rectory Road Sutton Coldfield B75 7RR</b>	<b>Local contact Martin Collard</b>  Andrology Mortuary Services / Body Storage	C
<b>Solihull Hospital Lode Lane Solihull B91 2JL</b>	<b>Local contact Martin Collard</b>  Mohs Clinic Mortuary Services (body receipt, storage and release)	D



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE AND FLUIDS	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>	Macroscopic and Microscopic examination:	
Fresh Tissue Formalin Fixed Tissue	Routine diagnostic examination of Histological specimens using the following:	Specimen Dissection  Manual Method using documented procedures	A B
Formalin Fixed Tissues		Decalcification using Documented Procedures  SOP PDI S013 and PID S027 SOP HI.S055 and HI.S070	A B



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HUMAN BODY TISSUE AND FLUIDS	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
Fresh Frozen	Routine diagnostic examination of Histological specimens using the following:	Manual Method using documented procedures  Leica Cryostats CM1850 SOP PDI S020	A
Fresh Mohs collected tissue		Thermo(Spredia)Cytostar NX50 SOP HI.S031  Mohs Collected Tissue Frozen section procedure and manufacturer's instructions SOP PDI S012 SOP HI.S006	B  A D
Formalin Fixed Tissue		Tissue Processing Documented procedures and manufacturer's instructions:  Sakura Tissue-Tek VIP6 PDI_S033  Tissue Embedding Documented procedures and manufacturer's instructions:	A,
Fresh tissue received in saline		Thermo Shandon HistoStar embedding workstation SOP PGH_S029 SOP HI.S051	A B



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HUMAN BODY TISSUE AND FLUIDS (cont)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
Formalin Fixed Paraffin Embedded Tissue	Routine diagnostic examination of Histological specimens using the following:	Leica Rotary Microtome's – Manual/Semi-Automated  LPFM Microtomes, Thermo Shandon (Epredia) SOP PGH_S031 SOP HI.S044	A B
Formalin Fixed Paraffin Embedded Tissue, Fresh Tissue, Frozen Tissue		Tissue Staining – Haematoxylin and Eosin  Agilent/DAKO Coverstainer PGH_T017  Tissue Tek Prisma Staining Machine SOP HI.S083	A  B



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HUMAN BODY TISSUE AND FLUIDS (cont)	<p><u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u></p> <p>Routine diagnostic examination of Histological specimens using the following:</p>	<p>Microscopy</p> <p>Leica and Nikon Light Microscopes; Olympus; Zeiss SOP CEL.S003</p>	A, B, C, D,
Formalin Fixed Paraffin Embedded Tissue	<p>Detection of the Following:</p> <p>Acid Mucins</p> <p>Amyloid</p> <p>Elastin Fibres</p> <p>Gram positive and Gram negative organisms</p> <p>Collagen, Connective tissue</p>	<p>Special Staining – Manual</p> <p>Documented procedure and manufacturer's instructions</p> <p>Alcian Blue pH2.5 SOP HI.S163</p> <p>Congo Red SOP HI.S007</p> <p>Elastin van Gieson Stain (EVG) SOP PSS_S001 SOP HI.S034</p> <p>Gram Stain  SOP PSS_S033 SOP HI.S025</p> <p>Gram Twort Stain SOP PSS_S002</p> <p>Haematoxylin Van Gieson (HVG) SOP PSS_S005 SOP HI.S112</p>	<p>B</p> <p>B</p> <p>A B</p> <p>A B</p> <p>A B</p>



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Formalin Fixed Paraffin Embedded Tissue	Routine diagnostic examination of Histological specimens using the following:  Detection of the Following:	Special Staining – Manual  Documented procedure and manufacturer's instructions	
	Haematopoietic tissues	Long Giemsa (Wilkin's Method) Stain SOP PSS_S007	A
	Collagen, Connective tissue	Martius, Scarlet and Blue (MSB) PSS_S035 HI.S017	A B
	Helicobacter Pylori	Modified Giemsa PSS_S034	A
	Melanin, Argentaffin Cells	Modified Masson's Fontana Stain PSS_S010	A
	Connective tissue	Masson's Trichrome HI.S037	B
	Acid and alcohol fast Bacilli	Ziehl Neelsen HI.S045	B
	Leprosy	Wade Fite HI.S046	B
	Glomerular basement membranes	Periodic Acid Schiff's (PAS) 2µm PSS_S015 Manual, Semi-Automated on Prisma and Automated on Artisan Pro	A



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	Routine diagnostic examination of Histological specimens using the following:		
	Detection of the Following:	Special Staining – Manual	
	Copper associated protein (CAP) Hepatitis B Surface Antigen	Orcein PSS_S014 HI.S020	A B
		Victoria Blue (CAP) HI.S028	B
	Calcium deposits	Shikata's Orcein PSS_S022	A
		Von Kossa HI.S027	B
	Mast Cells	Toluidine Blue PSS_S021	A
	Helicobater Pylori	Cresyl Fast Violet HI.S102	B
	Copper Associated Protein	Victoria Blue Stain HI_S029	B
Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Special Staining - Automated Documented procedure and manufacturer's instructions	
		Agilent/DAKO Artisan Link Pro Staining System PSS_S049	A
		Prisma Plus Stainer HI.S083	B



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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Special Staining - Automated Documented procedure and manufacturer's instructions	
		Agilent/DAKO Artisan Link Pro Staining System PSS_S049	A
		Prisma Plus Stainer HI.S083	B
	Acid and Neutral Mucins	Alcian Blue/Periodic Acid Schiff's	A, B
	Acid Mucins	Alcian Blue pH2.5	A
	Amyloid	Congo Red	A
	Haematopoietic Cells and Bacteria	Giemsa	B
		Agilent/DAKO Artisan Link Pro Staining System PSS_S049	A
		Roche Benchmark Special Stainer HI.S216	B
	Fungal Organisms	Grocott's Methenamine Silver	A, B
	Iron	Iron Stain	A, B
	Glomerular Basement Membranes	Jones' Methenamine Silver	A, B
	Connective Tissue	Masson's Trichrome	A
	Carbohydrates / Fungal Organisms 3µm / Glomerular Basement Membranes 2µm	Period Acid Schiff's	A





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HUMAN BODY TISSUE AND FLUIDS (cont)  Formalin Fixed Paraffin Embedded Tissue	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>			
	Detection of the Following:	Special Staining - Automated Documented procedure and manufacturer's instructions		
		Agilent/DAKO Artisan Link Pro Staining System PSS_S049	A	
		Roche Benchmark Special Stainer HI.S216	B	
	Reticulin fibres at 3µm and at 2µm	Reticulin-Nuclear Fast Red	A B	
	Spirochetes, Helicobacter pylori	Warthin Starry	A, B	
	Acid Fact bacilli	Acid Fast Bacteria Stain	A	
	Acid Mucins	Mucicarmine	B	
	Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
			Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ventana Ultra Platforms HI.S078	B	
Alpha – Synuclein Protein		Alpha-Synuclein	A	
Alpha-Synuclein Protein		Alpha-Synuclein Antibody	A	
Alpha-1-Antitrypsin-expressing cells		Alpha-1-Antitrypsin (A1A) Antibody	A	
Adrenocorticotropin Hormone		ACTH Antibody	A	
Amyloid A		Amyloid A Antibody	A	
Beta-Amyloid (A4)	BAPP	A		
Alzheimer's Plaques	Beta-Amyloid (A4)	A		
Androgen Receptor	AR Antibody	A		



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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
	Subset of B Cells	Agilent/DAKO Omnis PIC_S001	A
	Epithelial Cells, Sialyl Lewis x containing glycolipids	RochVentana Ultra Platforms HI.S078 MSK_LAB27	B E
	Carcinoembryonic Antigen positive cells	BOB-1	A, B
	Glutamine Synthetase Expressing Cells	CA-19.9	A,
	Hairy Cell Leukemia	Carcinoembryonic Antigen (CEA)	A,
	Plasma Cells, Lymphoid Cells containing IgG	Glutamine Synthetase	A, B,
	Mesothelial Cells	Annexin A1	A
	Alpha-Sarcoglycan Staining Protein	IgG Gamma Chains	A, B
	Spectrin Protein	Mesothelial Cell	A
	AE1/AE3 Epithelial Tumour Cells	Alpha-Sarcoglycan Staining	A
		Spectrin	A
		AE1/AE3 (PAN CK)	A, B,



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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
	Beta-Catenin expressing cells	Agilent/DAKO Omnis PIC_S001	A
	BCL2 Oncoprotein expressing cells	Roche Ventana Ultra Platforms HI.S078 MSK_LAB27	B E
	Large B-Cell Lymphoma/Follicular Lymphoma/Burkitts Lymphoma	Beta-catenin	A, B,
	Burkitts Lymphoma	BCL2	A, B,
	Epithelial Tissue	BCL6	A, B
	BSAP expressing B-Cells	C-Myc Antibody	A
	CA 125 Expressing Cells	Broad Spectrum Cytokeratin (MNF116)	A,
	Calponin Expressing Cells	BSAP (PAX-5)	A, B
	Prostate Basal Cells/Tonsil Epithelial Cells/Squamous Cell Carcinoma (Lung)	CA125	A, B,
	Glandular Epithelial Cells/Transitional Epithelial Cells	Calponin	A
		CK5	A, B,
		CK7	A, B,



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HUMAN BODY TISSUE AND FLUIDS (cont)  Formalin Fixed Paraffin Embedded Tissue	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	C-Reactive Protein	CRP Antibody	A
	C9 Complement	C9 Antibody	A
	Cytokeratin 8 Expressing Cells	CK8	A, B
	Cytokeratin 8/18 Expressing Cells	CK8/18	A, B
	Cytokeratin 20	Cytokeratin 20	A, B,
	Basal Cells/Squamous Epithelium	High Molecular Weight Cytokeratin (34BE12)	A, B
	CD1a Expressing Cells	CD1a	A, B,
	CD2 Expressing T-Cells	CD2 Antibody	A
	CD123 Expressing Cells	CD123	A, B
	CD3 T-Cells	CD3	A, B,
	CD4 T-Cells	CD4	A, B,
CD5 Expressing Cells	CD5	A, B,	
CD7 T-Cells	CD7	A, B	
CD8 Expressing Cells	CD8	A, B	
CD14 Expressing Cells	CD14	A, B	



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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	CD15 – Mature Granulocytes/Mononuclear Hodgkin's Cells/Reed-Sternberg Cells	CD15	A, B,
	CD19 Expressing B Cells	CD19	A
	CD20 B-Cells	CD20	A, B,
	CD21 Follicular Dendritic Cells/B-Cells	CD21	A, B,
	CD23 Expressing Cells/B-Cells	CD23	A, B,
	CD30 Expressing Cells	CD30	A, B,
	CD31 Endothelial Cells	CD31	A, B,
	CD34 Vascular and Lymphatic Tumours	CD34	A, B,
	CD42b Expressing Cells	CD42b Antibody	
	CD43 T-Cells	CD43	A, B,
	CD45 Cells of Lymphoid Origin	CD45 (LCA)	A, B,



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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078 MSK_LAB27	B E
	CD56 Natural Killer Cells/NK-like T-Cells	CD56	A, B.
	CD57 Expressing Cells	CD57	A, B
	CD68 KP1 Macrophages and Monocytes	CD68 KP1	A, B
	Claudin-1 Protein	Claudin-1 Antibody	B
	Macrophages	CD68 PGM1	A, B,
	B-Cells	CD79a	A, B,
	CD117 Expressing Cells	CD117 (CKIT)	A, B,
	Multiple Myeloma	CD138	A, B,
	Adenocarcinomas/Carcinoids in GI tract	CD-X2	A, B
	Neuroendocrine Cells	Chromogranin A	A, B,
	Cyclin D1 Expressing Cells	Cyclin D1	A, B,
	Cytomegalovirus infected Cells	CMV	A, B



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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	Smooth and Striated Muscle Cells	Desmin	A, B,
	GIST Expressing Cells	DOG-1	A, B
	Glioblastoma	ATRX Antibody	A
	Epithelial Cells	E-Cadherin	A, B
	Epithelial Membrane Antigen Expressing Cells	Epithelial Membrane Antigen (EMA)	A, B
	Epithelial Tumour Markers (AE1/AE3)	Epithelial Tumour Markers (AE1/AE3)	A
	Epithelial Antigen	Epithelial Related Antigen (ESA)	A
	Epstein-Barr Virus Infected Cells	Epstein-Barr Virus (LMP)	A, B
	Follicular Stimulating Hormone Expressing Cells	FSH	A
	Gastromas	Gastrin Antibody	A
	Growth Hormone Expressing Cells	Growth Hormone	A



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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	Astrocytes – Glial Fibrillary Acidic Protein	GFAP	A, B
	Glypican 3 Expressing Cells	Glypican-3	A
	H3F3 G34W Protein	H3F3 G34W Antibody	B
	H3F3 K36M Protein	H3F3 K36M Antibody	B
	Hepatitis B Virus	HBcAG	A
	Human Herpes Virus (Type 8) Latent Nuclear Antigen, Kaposi Sarcoma	HHV-8 CM	A, B,
	Herpes Simplex Virus-1 Infected Cells	HSV-1	A
	IDH (Isocitrate Dehydrogenase) 1	IDH1	A
	IgG4 Expressing Cells	IgG4	A, B
	Insulin Expressing Cells	Insulin	A
	KI-67 Expressing Cells	Ki67	A, B,
	Leutinizing Hormone	Leutinizing Hormone (LH)	B





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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	Large T Antigen	SV40 Antibody	A
	Nephropathy	PLA2R Antibody	A
	Mallory Denk Bodies	Ubiquitin Antibody	A
	Melan-A Expressing Cells	Melan-A	A, B,
	Melanocytes	Melanosome	A, B
	Mucin 1 Expressing Cells (CD227)	MUC1	A
	Mucin 2 Expressing Cells	MUC2 Antibody	A
	MUM-1 B-Cells in the Light Zone of the Germinal Centre/Plasma Cells/Activated T-Cells	MUM-1	A, B
	Myelin PLP	Myelin PLP Antibody	A
	Myeloperoxidase Expressing Cells	Myeloperoxidase	A, B
	Neurofilament Protein Expressing Cells	Neurofilament Protein	A
	Neuronal Cell	Neu-N	A
	Oestrogen Receptor Status	ER	A, B,
	P16 Expressing Cells	P16	A, B



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	P53 Protein	P53	A, B,
	P62 Protein	P62 Antibody	A
	Malignant Prostatic/Breast Glands, and Squamous Cell Carcinoma	P63 Antibody	A
	Parathyroid Hormon	PTH Antibody	A
	Pax-8-Expressing Cells	Pax-8	A, B,
	Perforin	Perforin Antibody	A
	Pituitary Adenomas	Pit1 Antibody	A
	Pituitary Adenomas	TBX19 (TPIT) Antibody	A
	Podoplanin Expressing Cells	Podoplanin (D2-40)	A
	Progesterone Receptor	PGR	A, B,
	Prolactin Expressing Cells	Prolactin	A
	Prostate Specific Antigen Expressing Cells	Prostatic Specific Antigen (PSA)	A, B,
	Carcinoma of Prostate	Prostatic Acid Phosphatase (PSAP)	A, B,
	Primary Prostate Cancer	NKX3.1 Antibody	B
	S100 Expressing Cells	S100	A, B,
	Smooth Muscle Cells/ Myofibroblasts/Myoepithelial Cells	Smooth Muscle Actin (SMA)	A, B,
	Smooth Muscle Myosin/ Myoepithelial Cells	Smooth Muscle Myosin (SSMYO)	A, B



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HUMAN BODY TISSUE AND FLUIDS (cont)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	SDHA Protein	SDHA 1/100 Antibody	A
	Synaptophysin Expressing Cells	Synaptophysin	A, B,
	Toxoplasmosis gondii infected cells	TOXO Antibody	A
	Thyroid Stimulating Hormone Expressing Cells	TSH	A
	Thyroid Transcription Factor-1 Expressing Cells	TTF1	A, B,
	Germ Cell Tumours	Alpha Feta Protein/ OCT3/4	A, B,
	Anaplastic Large Cell Lymphoma	Anaplastic Lymphoma Kinase (ALK)	B,
	Primary Breast Cancer Marker	GATA 3 Antibody	A, B
	Pulmonary Squamous Cell Carcinoma Marker	P40 Antibody	B
	Pulmonary Adenocarcinoma Marker	Napsin A Antibody	A, B



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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
	Primary Erythroid Marker	Agilent/DAKO Omnis PIC_S001	A
	Neoplastic Mast Cell Marker	Roche Ventana Ultra Platforms HI.S078	B
	T-Follicular Helper Cells	CD71	B
	Chronic Lymphocytic Leukaemia	CD25 Antibody	A, B
	High-Grade Prostatic Intraepithelial Neoplasm (HGPIN) & Prostate Adenocarcinoma	PD1 Antibody	B
	Most Cells/Loss of in Subset of Mesotheliomas	LEF1	B
	Most Epithelial XCells/Paget's Disease	AMACR – Racemase	A, B
	Clear Cell Kidney Carcinoma	BAP1	B
	C-Cell Abnormalities of the Thyroid	CAM5.2	B
		Carbonic Anhydrase IX	B
		Calcitonin	A, B,



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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	Pulmonary Subtypes – Mesotheliomas	Calretinin	A, B,
	Pulmonary Subtypes – Mesothelioma	Thrombomodulin	B
	Categorisation of Lymphoid, Renal, Liver, Connective Tissues, and Endometrial Tumours	CD10	A, B,
	Langerhan Cells	Langerin	B
	B-Cells – Normal/Neoplastic	PAX5/MUM1	B
	T-Cells – Normal/Neoplastic	Granzyme B	A, B
	T-Cells – Normal/Neoplastic	TCR Beta	B
	T-Cells – Lymphomas	TCR Beta	B
	T-Cells – Lymphoma	TCR Delta Antibody	B
	T-Cells – Lymphoma	TFE3 Delta Antibody	B
	Marginal Zone Lymphoma	MNDA Antibody	B
	Endothelial Cells/Tumours	Factor 8	A, B
	Bladder Epithelium	CD44	B



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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	Megakaryocytes	CD61	B
	Erythroid Precursor Cells	CD71	B
	Ewings Sarcoma	CD99	B,
	Identifying Primary Site of a Carcinoma	CK14	A, B
	Identifying Primary Site of a Carcinoma	CK17	B
	Identifying primary site of a Carcinoma	CK19	B
	CKMNF116 Protein	CKMNF116 Antibody	B
	Mantle Cell Lymphoma	SOX11	B
	Lymphatic Endothelium	D2-40	A, B
	Smooth Muscle Cells – Normal/Neoplastic	H-Caldesmon	B,



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HUMAN BODY TISSUE AND FLUIDS (cont)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	Dermatofibromas	Factor 13a	A, B
	Reed-Sternberg Cells/ Dendritic Cells	FACSSIN	B
	Thyroid Stimulating Subtyping	HBME (Mesothelial Cell)	B
	Erythrocytes – Normal/Neoplastic	Glycophorin A	B
	ERG-1 Protein	ERG-1 Antibody	B
	Erythrocytes and Precursors	Glyco C Antibody	A
	Metastatic Breast Cancer	Gross Cystic Disease Fluid Protein-15	A, B
	Subtyping Germ Cell Tumours and Molar Pregnancies	HCG – Human Chorionic Gonadotrophin	A, B
	Hepatocytes – Normal/Neoplastic	Hepatocyte	A, B
	HIV Infected Cells	HIV Antibody	A
	Melanoma	PRAME Antibody	B
	Melanomas	HMB45 (Melanosomes)	B,
	Immuno-Complex Disorders/ Lymphoid Tumour Subtyping	IgA	B



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HUMAN BODY TISSUE AND FLUIDS (cont)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	Immuno-Complex Disorders / Lymphoid Tumour Subtyping	IgA	B
	Immuno-Complex Disorders / Lymphoid Tumour Subtyping	IgD	A, B
	Immuno-Complex Disorders / Lymphoid Tumour Subtyping	IgG	B
	Immuno-Complex Disorders / Lymphoid Tumour Subtyping	IgM	A, B
	IgG-4 Related Systemic Disease	IGG4	B
	Characterisation of Various Genitourinary Tract Tumours	Inhibin	A, B
	Map-2 Microtubules	MAP2 Antibody	A
	Distinction between Monoclonal (i.e Neoplastic), versus Polyclonal (i.e Reactive) Proliferation of B Lymphoid Cells	Kappa	A, B,





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HUMAN BODY TISSUE AND FLUIDS (cont)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	Distinction between Monoclonal (i.e Neoplastic), versus Polyclonal (i.e Reactive) Proliferation of B Lymphoid Cells	Lambda	A, B
	Myeloid Cells – Acute Myeloid Leukaemia	Lysozyme/Myeloperoxidase	A, B,
	Mast Cells	MAST Cell Tryptase	A, B
	Mismatch Repair Proteins – Lynch Syndrome	MLH1	A, B
	Mismatch Repair Proteins – Lynch Syndrome	MSH2	A, B
	Mismatch Repair Proteins – Lynch Syndrome	MSH6	A, B
	Mismatch Repair Proteins – Lynch Syndrome	PMS2	A, B
	Mitochondria	Mito Antibody	A



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Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	Skeletal Muscle Differentiation, Rhabdomyosarcoma	Myogenin/Sarcometric	A, B,
	Type II Pneumocytes/Basal Cells in Lung	P40NAP	B
	Complete Molar Pregnancies	P57	B
	Malignant Prostatic/Breast Glands, and Squamous Cell Carcinoma	P63	B,
	Malignant Prostatic Glands	P63/AM (Double Stain)	B,
	Epithelial Cells/Lobular Carcinoma +ve	P120	B
	Angioimmunoblastic Lymphoma	PD1	B
	Acute Lymphoblastic Lymphoma	Terminal Deoxynucleotidyl Transferase	A, B,
	Thyroid Epithelium – Normal/Neoplastic	Thyroglobulin	A, B,



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HUMAN BODY TISSUE AND FLUIDS (cont)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
		Agilent/DAKO Omnis PIC_S001	A
		Roche Ventana Ultra Platforms HI.S078	B
	Type II Pneumocytes/Basal Cells in Lung	TTFck5	B
	Metastatic Colorectal Tumours	Villin	B
	All Mesenchymal Cells/Co-Expression with CK in Wide Variety of Tumours	Vimentin	A, B,
	Ovarian Tumours/ Mesothelioma/ Sarcomas	Wilms Tumour WT1	A, B,
	Epithelial Cell Types	BerEP4/MOC31	A, B,
	Gastrointestinal Stromal Tumours (GISTs), Mast Cells, and their Relevant Disorders	CKIT/CD117	B
	Epstein Barr Virus	EBER	B
	Chordoma	Brachyury	B,



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<p>HUMAN BODY TISSUE AND FLUIDS (cont)</p> <p>Formalin Fixed Paraffin Embedded 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>Detection of the Following:</p> <p>Ewing-like Sarcoma BCOR-CCNB3</p> <p>Sarcoma</p> <p>Absence of Expression on Epithelioid Sarcoma Cells</p> <p>Low-Grade Myxoid Fibrosarcoma</p>	<p>Immunohistochemistry Documented procedures and manufacturer's instructions:</p> <p>Roche Ventana Ultra Platforms HI.S078</p> <p>CCNB-3</p> <p>H3K27ME3 Antibody</p> <p>Ini-1</p> <p>Muc-4</p>	<p>B</p> <p>B,</p> <p>B,</p> <p>B,</p> <p>B,</p>



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HUMAN BODY TISSUE AND FLUIDS (cont)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
Formalin Fixed Paraffin Embedded Tissue	Detection of the Following:	Immunohistochemistry Documented procedures and manufacturer's instructions:	
	Rhabdomyosarcoma	Roche Ventana Ultra Platforms HI.S078	B
	Rhabdomyosarcoma	Myf-4	B,
	Normal and Neoplastic Cells of Neuronal and Neuroendocrine Origin	Myo-D1	B,
	B-Cell Marker	NSE	A,
	Germ Cell Tumours	Oct-2 Antibody	A
	Germ Cell Tumours, Myoepitheliomas	Oct 3/4 Antibody	A
	Germ Cell Tumours	Oct-04	B,
	GLUT-1 Protein	PLAP	A, B,
	Osteoblast Differentiation	GLUT-1 Antibody	B
	Solitary Fibrous Tumour	SATB2	B,
		STAT6	B,



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<p>HUMAN BODY TISSUE AND FLUIDS (cont)</p> <p>Formalin Fixed Paraffin Embedded 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>Detection of the Following:</p> <p>Thyroid Carcinoma, Synovial Carcinoma</p>	<p>Immunohistochemistry Documented procedures and manufacturer's instructions:</p> <p>Roche Ventana Ultra Platforms HI.S078</p> <p>TLE-1</p>	<p>B</p> <p>B,</p>



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HUMAN BODY TISSUE AND FLUIDS (cont)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
Formalin Fixed Paraffin Embedded Tissue	Morphological Assessment and Interpretation/Diagnosis	Preparation and Processing of Specimens for Electron Microscopy using Leica EMTP Tissue Processor PEM_S056, PEM_S057, PEM_S063, PEM_S064, PEM_S065, PEM_S066, PEM_S067, PEM_S068, PEM_S069, PEM_S070, PEM_S071, PEM_S072	A
Fresh Tissue		Preparation and Processing of Specimens for Electron Microscopy using Leica EMTP Tissue Processor PEM_S056, PEM_S057, PEM_S063, PEM_S064, PEM_S065, PEM_S066, PEM_S067, PEM_S068, PEM_S069, PEM_S070, PEM_S071, PEM_S072 PEM_S069, PEM_S073, PEM_S074, PEM_S075, PEM_S077	A
Glutaraldehyde Fixed Resin-Embedded Tissue Sections on Glass Slides		Staining of Electron Microscope Tissue Sections  Toluidine Blue Staining Thionin Staining Uranyl Acetate Staining Lead Citrate Staining PEM_S058	A



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Glutaraldehyde Fixed Resin-Embedded Tissue Sections on Glass Slides	Morphological Assessment and Interpretation/Diagnosis	Sectioning Samples Semi-Thin and Ultra-Thin Sections using Leica Ultra Cut UC7RT Ultra Microtome  PEM_S058, PEM_S072, PEM_S073, PEM_S074, PEM_S075, PEM_S076, PEM_S077	A
	Ultrastructural Examination and Digital Electron Micrographs using Semi-Thin and Ultra-Thin Sections to Identify and Exclude Ultrastructural Morphological Abnormalities for the Purpose of Diagnosis	Light Microscope and FEI Technai G2 Electron Microscope PEM_S0258, PEM_S035	A
Fresh Tissue: Muscle		Receipt and Preparation of Muscle Tissue PMU_S058	B
		Preparation and Muscle Tissue Frozen Sectioning using the Leica CM1850 UV Cryostat PMI_S001	B
Fresh Frozen Tissue: Muscle	Mitochondrial Complexes	Cytochrome C Oxidase Staining PMU_S010	
	Mitochondrial Complexes	Gomori Trichrome Staining PMU_S005	B
	Basophilic and Eosinophilic Structures	Haematoxylin and Eosin Staining PMU_S004	B
	Demonstration of Lipofushin	Muscle Acid Phosphatase Staining PMU_S013	B





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HUMAN BODY TISSUE AND FLUIDS (cont)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
Fresh Frozen Tissue: Muscle	Demonstration of Lipofushin	Myosin Adenosine Triphosphatase Staining pH 9.4 & pH 4.6 PMU_S012	B
	MHC	Major Histocompatibility Complex PMU_S012	B
	NADH	NADH Staining PMU_S009	B
	PAS +ve	Periodic Acid – Schiffs (PAS) Staining PMU_S007	B
	Phosphorylase Activity	Phosphorylase Staining	B
	SDH Activity	Succinate Dehydrogenase Staining PMU_S011	B
	Lipids	Sudan Black Staining PMU_S006	B
Neuropathological Tissue: Formalin Fixed Tissue Processed to Paraffin Wax Fresh Tissue Frozen Tissue		In-House Documented Immunohistochemistry Procedures and Manufacturer's Instructions using DAKO Autostainer Link 48 Platforms – Dako Envision FLEX+ Detection System PIC_S053 PIC_S001	A B
	Alpha Sarcoglycan	A-Sarcoglycan Antibody	A
	Beta Sarcoglycan	B-Sarcoglycan Antibody	A
	Delta Sarcoglycan	D-Sarcoglycan Antibody	A
	Gamma Sarcoglycan	G-Sarcoglycan Antibody	A
	Dystrophin (C-Terminus) Protein	Dystrophin (C-Terminus)	A, B
	Dystrophin (N-Terminus) Protein	Dystrophin (N-Terminus) Antibody	A
	Dystrophin (Rod Zone) Protein	Dystrophin (Rod Zone)	A, B
	Emerin Protein	Emerin	B



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HUMAN BODY TISSUE AND FLUIDS (cont)	<u>Histology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>		
Neuropathological Tissue: Formalin Fixed Tissue Processed to Paraffin Wax Fresh Tissue Frozen Tissue		In-House Documented Immunohistochemistry Procedures and Manufacturer's Instructions using DAKO Autostainer Link 48 Platforms – Dako Envision FLEX+ Detection System PIC_S053 PIC_S001	A B
	Myosin Heavy Chain Developmental	MHCd Antibody	A
	Skeletal Muscle Fast Fibres	MHCf	A, B
	HLA_ABC Antigen (MHC-I)	MHCi Antibody	A
	Myosin Heavy Chain Neonatal	MHCn Antibody	A
	Skeletal Muscle Slow Fibres	MHCs	A, B
	Spectrin Protein	Spectrin Antibody	A
	Myoepithelial Cells, Smooth Muscle Cells	Myosin Heavy Chain/Smooth Muscle	B
Fresh Tissue Received in Saline (Predominately Renal and Skin tissue)	Identification of Antigens at a Subcellular Level by Means of Fluorescent Antibodies	Direct Immunofluorescence using Documented In-House Methods and Manufacturer's Instructions  HI.S333	A, B
	Diagnostic Cytology Examination to Assist in Clinical Investigation	Documented Procedure and Manufacturer's Instructions	
Air Dried Preparations, Body Fluids, CSFs, Wet	Preparation and Examination of Cellular Material to Identify or	Rotain Centrifuge and Shandon Cytospin 4	
Fixed Preparations, Body	Exclude Cytological	PCY_S025	A
Fluids, Urine, Aspirates, Washing, Brushings, EBUS	Abnormalities	Hologic T5000 Benchtop Processor and Hologic T2000 Processor  CY.S301, CY.S328, CY.S306	B



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<p>HUMAN BODY TISSUE AND FLUIDS (cont)</p> <p>Air Dried Preparations, Body Fluids, CSFs, Wet Fixed Preparations, Body Fluids, Urine, Aspirates, Washing, Brushings, EBUS</p> <p>FNA Air Dried Preparations: Breast, Thyroid, and Lymph Node</p> <p>Slides Prepared In-House as Above</p>	<p>Diagnostic Cytology Examination to Assist in Clinical Investigation</p> <p>Preparation and Examination of Cellular Material to Identify or Exclude Cytological Abnormalities</p>	<p>Documented Procedure and Manufacturer's Instructions</p> <p>Processing and Staining using Papanicolaou, Modified Giemsa and Haematoxylin &amp; Eosin</p> <p>Processing and Staining using Papanicolaou, May Grünwald Giemsa staining using Prisma Automated Stainer and Coverslipper CY.S347</p>	<p>A</p> <p>B</p>
	<p>Cellularity Assessment</p>	<p>Thermos Scientific Linstain Staining Machine</p>	<p>A</p>
	<p>Morphological Assessment and Interpretation/Diagnosis</p>	<p>Documented Procedure</p> <p>PAA_S018 CY.S419</p>	<p>A</p> <p>B</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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 AND.S003	C
Semen	<u>Fertility testing:</u>  Volume  pH  Sperm morphology including TZI scoring  Sperm concentration  Sperm motility  Sperm vitality	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method and documented in-house procedure SOP AND.S002  Volume/weight  Colorimetric strips  Stained slides (Papanicolau) microscopy (Bright field)  Improved Neubauer counting chambers and Microscopy (Phase contrast)  Microscopy (Phase contrast)  Stained slide (Eosin/Nigrosin dye exclusion test) microscopy (Bright field)	C



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**University Hospitals Birmingham NHS Foundation Trust**

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS Urine	<u>Andrological examination activities for the purposes of clinical diagnosis</u> <u>Assessment of retrograde ejaculation</u>  Detection of sperm Sperm concentration Sperm Motility	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method and documented in-house procedure SOP AND.S033  Using manual methods and phase-contrast microscope (incl. centrifugation)	C
END			