


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 8415 Accredited to ISO 15189:2012	Oxford University Hospitals NHS Foundation Trust	
	Issue No: 011	Issue date: 25 February 2025
	Cellular Pathology John Radcliffe Hospital Headley Way Headington Oxford OX3 9DU	Contact: Sharon Roberts-Gant Tel: +44 (0)1865-220494 E-Mail: sharon.roberts-gant@ouh.nhs.uk Website: www.ouh.nhs.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
John Radcliffe Hospital Headley Way Headington Oxford OX3 9DU	Sharon Roberts-Gant (contact details above)	Diagnostic Cytopathology Histopathology (inc. routine & special staining, frozen sections) Immunohistochemistry In-situ hybridisation Mortuary services - body receipt, storage & release
Churchill Hospital Old Road Headington Oxford OX3 7LE	Sharon Roberts-Gant (contact details above)	Slide production, staining & mounting of fine needle aspirates for diagnostic cytology. Mortuary Services - Body receipt, storage & release
Nuffield Orthopaedic Centre Oxford University Hospitals NHS Foundation Trust Headington Oxford OX3 7HE	Contact: Louisa Brook Tel: +44 (0)1865-738138 Fax: +44 (0)1865-738140 E-Mail: louisa.brook@ouh.nhs.uk Website: www.ouh.nhs.uk	Histopathology (inc. routine & special staining) Immunohistochemistry

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Horton General Hospital Oxford Road Banbury Oxfordshire OX16 9AL	Sharon Roberts-Gant (contact details above)	Mortuary Services - Body receipt, storage & release



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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 TISSUES AND FLUIDS Fluids Brushings Fine needle aspirates slide preparations for cytological analysis	<u>Diagnostic cytopathology</u>	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
	Examination to identify or exclude cytological abnormalities for the purpose of diagnosis	<u>Preparation/centrifugation</u> using procedures: NG02, NG03 in conjunction with manufacturer's instructions using: ThermoShandon Cytospin4, Heraeus Labofuge 400: NG08, NG40 Cytoblocks Kit NG32	JRH
	Examination to identify or exclude cytological abnormalities for the purpose of diagnosis	<u>Staining</u> using in-house procedures for (as appropriate): Papanicolaou: NG19 May Grunwald Giemsa: NG20 Quick Diff: NG21 in conjunction with manufacturer's instructions using: Shandon Varistain 24-4: NG02, NG19	JRH
		Automated staining Papanicolaou Use and Maintenance of Tissue Tek Prisma™ Automated Staining Machine, H272	JRH
Slides prepared in house from samples listed above	Morphological assessment and interpretation/diagnosis	<u>Microscopy (qualitative analysis)</u> Using procedures: CPSOP27 in conjunction with manufacturer's instructions using microscopes Leitz Dialux, Labourlux K, Laborlux S, Orthoplan, Orthomat II, Nikon Eclipse 50i, Ci-L, E200, E400 & E600, Optishot Olympus BH2, BHTU, BH-U, BHS312, BHS313, BX40, BX41, BX50, BX51, BX53	JRH CHF



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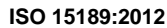
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HUMAN TISSUES	<u>Histopathology</u>	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
Tissues: biopsy, excision, resection and post-mortem specimens	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	<u>Macroanalysis & dissection</u> using: Cut up and Assisting H004,	JRH
		Specimen Handling at Cut Up, H005	JRH
		Decalcification and Tissue Softening, H008	JRH
		Frozen Section and Fresh Tissue Handling, H010	JRH
		Handling of POC/Ectopic Cases Following Specimen Dissection (HTA team), H294	JRH
		Use of Menarini MacroPath Pro-x Digital Camera, H305	JRH
		Skin Dissection Guidelines, MO03	JRH
		Gastrointestinal Dissection Guidelines, MO07	JRH
		Urological Dissection Guidelines, MO08	JRH
		Breast Dissection Guidelines, MO09	JRH
		Cardio-Respiratory Dissection Guidelines, MO10 Head and Neck Dissection Guidelines, MO11	JRH
		Haematological Dissection Guidelines, MO13 Endocrine Dissection Guidelines, MO15	JRH



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Fresh Tissue for Frozen techniques	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	<u>Frozen Section and Fresh Tissue Handling H010</u> <u>Sectioning & slide production</u> using: Leica Cryostats, CM1950 & CM1860 UV Cryostat Use and Maintenance, H201 Immunofluorescence Cutting and Staining, H040	JRH JRH & NOC JRH JRH
Frozen Tissue Tissue on Glass Slides	Stains to detect the following: Basophilic and eosinophilic tissue structures	Manual H&E Method and Quality Monitoring of H&E Stain H171	JRH
Frozen sections of fresh tissue	Special stains to detect the following: Ganglion cells Neutral lipids Alkaline Phosphatase	<u>Special staining</u> Manual methods using procedures: Special Stains Workload Organisation and Quality Control Procedure H264 and stains as appropriate: ACHE (Acetylcholinesterase) Staining Method H194 Oil red O Technique H092 NOC ALP SOP0005	JRH JRH JRH NOC
Frozen sections of fresh tissue	Immunohistochemistry to detect the following: Complement factor (fluorescent) Complement factor (fluorescent) Fibrinogen (fluorescent) Immunoglobulin (fluorescent) Immunoglobulin (fluorescent) Immunoglobulin (fluorescent)	Immunofluorescence Cutting and Staining SOP H040 C1Q FITC C3 FITC Fibrinogen FITC IgA FITC IgG FITC IgM FITC	JRH JRH JRH JRH JRH JRH



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<p>HUMAN TISSUES (cont'd)</p> <p>Tissues: biopsy, excision, resection and post-mortem specimens</p> <p>Benign soft tissue tumour Malignant soft tissue tumour Other soft tissue Bone Bone tumours</p>	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
	Light chain (fluorescent)	Kappa FITC	JRH
	Light chain (fluorescent)	Lambda FITC	JRH
		<u>Processing</u> using: Sakura VIP: Processors: Use & Maintenance of the Tissue-Tek Vacuum Infiltration Processor 5, H159	
		Use and Maintenance of Tissue-Tek VIP6, H273	JRH
		Leica Peloris Processors : Use and Maintenance of the Leica Peloris Tissue Processor, H288	JRH
		Use and Maintenance of the Leica Peloris III, H301	JRH
		<u>Processing</u> <u>using:</u> <u>VIP automated tissue processors:</u> <u>NOC Instructions on how to use the Sakura Tissue-Tek VIP6 tissue processor SOP0022</u>	NOC



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<p>HUMAN TISSUES (cont'd)</p> <p>Tissues: biopsy, excision, resection and post-mortem specimens</p> <p>Benign soft tissue tumour Malignant soft tissue tumour Other soft tissue Bone Bone tumours</p> <p>Formalin Fixed Paraffin wax Embedded tissue (FFPE)</p> <p>FFPE sections on glass slides</p>	<p><u>Histopathology</u> (cont'd)</p> <p>Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p> <p><u>Stains to detect the following:</u> Basophilic and eosinophilic tissue structures</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p><u>Embedding</u> using: Thermoshandon Histostar & Leica embedding centres, Leica Histocore Arcadia embedding centre. Tissue Embedding, Daily Worksheet and Block Organisation, H021</p> <p><u>Embedding</u> using: Leica Arcadia Embedding station</p> <p>NOC Embedding SOP0007</p> <p><u>Sectioning & slide production</u> using: Leica Rotary Microtomes, RM2135, RM2235 & RM2255 Leica Histocore Biocut microtomes: Microtomy H022</p> <p>NOC Microtomy SOP0008</p> <p>Automated Methods Routine Haemotoxylin and Eosin (H&E) staining & coverslipping Use and Maintenance of Tissue Tek Prisma™ Automated Staining Machine, H272 Use and maintenance of the Tissue Tek Glas g2 automated coverslipper: CPSOP32</p>	<p>JRH</p> <p>NOC</p> <p>JRH</p> <p>NOC</p> <p>JRH</p>



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Benign soft tissue tumour		Instructions for the DiaPath Giotto Autostainer SOP0025	NOC
Malignant soft tissue tumour		NOC Haematoxylin and Eosin SSP0014	
Other soft tissue		Clearvue coverslipper	
Bone		NOC Coverslipping glass slides SOP0023	
Bone tumours			
FFPE sections on glass slides	<u>Special stains to detect:</u>	Automated staining method	
	Dermal Acidic Mucins	Alcian Blue H&E Technique, H136	JRH
	Acidic mucins, PAS positive substances (neutral mucins, glycogen) and mixed mucins	Alcian Blue Periodic Acid Schiff's (ABPAS) Technique, H054	JRH
	Acidic mucins, PAS positive substances (not glycogen) and mixed mucins	Diastase Alcian Blue Periodic Acid Schiff's (DABPAS) Technique, H296	JRH
	Glycogen evidenced by loss of staining after diastase, Selective glycogen staining	Diastase Periodic Acid Schiff's (DPAS) Technique, H097	JRH
		NOC Periodic Acid Schiff's (PAS/Diastase PAS (DPAS)/ PAS Fungi (PASF)) SSP0026	NOC
	Mucins, Glycogen, Basal Lamina, PAS positive substances	Renal Periodic Acid Schiff's (RPAS) Technique, H098	JRH
	<i>Helicobacter pylori</i>	Toluidine Blue for <i>H. Pylori</i> , H071	JRH
FFPE, fresh and frozen sections on glass slides	<u>Stains to detect the following:</u>	Manual staining I methods using procedures:	
	Basophilic and eosinophilic tissue structures	Manual H&E Method and Quality Monitoring of H&E Stain, H171	JRH
		Manual Coverslipping & Repairing Slides, H027	JRH



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
	Acidic mucins	Manual Special Stain methods: Alcian blue (AB) H053	JRH
	Acidic mucins, PAS positive substances, (neutral mucins, glycogen) and mixed mucins	Alcian Blue Periodic Acid Schiffs (ABPAS) H054	JRH
	Amyloid	Congo red method H174	JRH
		SSP0004	NOC
	Alcidic mucins, PAS positive substances (not glycogen) and mixed mucins	Diastase Alcian blue Periodic Acid Schiffs (DABPAS) H296	JRH
	Glycogen evidenced by loss of staining after diastase, selective glycogen staining	Diastase Periodic Acid Schiff's (DPAS) Technique H097	JRH
	Dermal acidic mucins	Alcian blue haematoxylin for skin H136	JRH
	Elastic, Collagen, RBCs & other tissue elements	Elastic van Gieson (EVG) H087	JRH
		NOC Millers Elastic van Gieson SSP0022	NOC
FFPE, fresh and frozen sections on glass slides (cont'd)	Bile pigment, muscle / cytoplasm and collagen	Fouchet - Technique, H063	JRH
		Staining manual methods using procedures:	
	Collagen	Fast green - Sirius Red Technique, H133	JRH
	Haemopoietic cells, Bone marrow cells	Giemsa method H064	JRH



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE, fresh and frozen sections on glass slides (cont'd)		Staining manual methods using procedures (cont'd):	
	Mineralised bone, osteoclast/osteoblast activity	Goldner's Trichrome SSP010	NOC
	Gram positive & negative microorganisms	Gram's stain H069	JRH
		NOC Gram Stain SSP0011	NOC
	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis		
FFPE sections on glass slides	<u>Special stains to detect the following:</u>	Special staining Manual methods:	
	Reticulin fibres, collagen	Reticulin stain (Gordon & Sweets technique) H068	JRH
	Fungi, <i>Pneumocystis carinii</i> / <i>jirovecii</i>	Grocott's Hexamine Silver H075	JRH
		NOC Grocott SSP0013	NOC
	Collagen, Muscle, RBCs	Haematoxylin Van Gieson H077	JRH
	Glomerular Basement membranes, basal lamina	Jones Hexamine silver technique H079	JRH
	Fibrin, Muscle, Collagen, RBCs	Martius Scarlet Blue (MSB) technique H089	JRH
	Collagen, connective tissue, muscle, RBCs, Fibrin	Masson's trichrome technique H086	JRH
	Melanin, Argentaffin, Chromaffin, Lipofuscin	Masson Fontana and melanin bleach H084	JRH
		NOC Massons Fontana SSP0019	NOC



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides (cont'd)	<u>Special stains to detect the following:</u> (cont'd) Hepatitis B surface antigen (Hep BsAg),, Copper Associated Proteins (CAP) & Elastin	Special staining Manual methods Orcein shikata stain H094	JRH
	Mucins, Glycogen, PAS positive substances – (such as fungal hyphae)	Periodic Acid Schiffs (PAS) Technique H096 SSP0026	JRH NOC
	Glycogen evidenced by loss of staining after diastase	Diastase Periodic Acid Schiffs (DPAS) technique H097	JRH
	Haemosiderin, Ferric iron, Ferringinous bodies	Perls Prussian Blue H099 NOC Perls Technique SSP0027	JRH NOC
	Basal lamina, PAS positive substances	Renal Periodic Acid Schiffs (RPAS) techniques (H098)	JRH
	<i>Helicobacter pylori</i>	Toluidine blue for Helicobacter Pylori H071	JRH
	Cartilage and mast cells	Toluidine blue SSP0033	NOC
	Calcium	Von Kossa SSP0035	NOC
	Acid fast bacilli – <i>mycobacterium leprae</i>	Wade-Fite technique H120	JRH
	Acid fast bacilli <i>mycobacterium sp</i>	Ziehl Neelsen technique H113 NOC Ziehl Neelsen (ZN) for TB SSP0037	JRH NOC



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides	<u>Special stains to detect the following:</u> Acidic mucins, neutral mucins, PAS positive substances Acidic mucins, PAS positive substances Glycogen evidenced by loss of staining after Diastase	Special staining Automated methods Alcian Blue Periodic Acid Schiffs (PAS) Diastase Alcian blue PAS Diastase PAS Immunohistochemistry Workload Organisation H235 Anitbody Dilution and Optimisation, H151	JRH JRH JRH JRH & NOC
FFPE sections on glass slides	Immunohistochemistry to detect the following: Smooth muscle Cytokeratins (pan CK marker) Majority of epithelial cells Alpha 1 fetoprotein Anaplastic lymphoma kinase Alpha 1 anti-trypsin Racemase (Prostate ca) Amyloid A Amyloid P component	Use of Bond III staining machine H236 Bond III staining machine maintenance SOP H279 Actin AE1/3 (multi CK) AFP ALK1 Alpha 1AT AMACR (racemase) Amyloid A Amyloid P	JRH & NOC JRH JRH & NOC JRH JRH JRH JRH JRH



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following (cont'd):	Use of Bond III staining machine H236 (cont'd):	JRH & NOC
	Lymphoma panel	Annexin	JRH
	Androgen receptor	Androgen receptor	JRH
	Many tumours	BAF47	NOC
	BRCA1-Associated Protein, Skin	BAP-1	JRH
	Lymphoma panel	Bcl-2	JRH
	Lymphoma panel	Bcl-6	JRH
	Epithelial cell types	BerEP4	JRH
	Epithelial cells Beta-catenin cytoplasmic protein	Beta catenin	JRH & NOC
	B-Cells	BOB-1	JRH
	Chordoma cells	Brachyury	NOC
	Small round cell tumours	Bcor	NOC
	C-myc protein	C Myc	JRH
	Renal cell carcinoma	Ca1X	JRH
	Ovarian marker	CA125	JRH
	Pancreatic marker	CA19.9	JRH
	C cell Thyroid	Calcitonin	JRH
	Smooth muscle cells	Caldesmon	JRH & NOC



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FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Use of Bond III staining machine H236 (cont'd):	
	Smooth Muscle cells	Calponin	JRH & NOC
	Mesothelioma	Calretinin	JRH
	Calreticulin mutation	CALR	JRH
	Xp11.2 translocation RCC	Cathepsin K	JRH
	Lymphoma panel Normal early progenitor cells and immature B cells	CD10	JRH & NOC
	Lymphoma panel	CD14	JRH
	Hogkin lymphoma	CD15	JRH
	B Cell	CD19	JRH
	Lymphoma panel	CD123	JRH
	Plasma cells	CD138	JRH
	Monocytes and macrophages	CD163	JRH & NOC
	Transmembrane tyrosine kinase receptor (basal cells of skin) for GISTs	CD117 C-Kit	NOC
	Langerhans cells	CD1a	JRH & NOC



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FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Use of Bond III staining machine H236 (cont'd):	
	T cells	CD2	JRH
	B cells	CD20	JRH & NOC
	Follicular dendritic cells	CD21	JRH
	Follicular dendritic cells	CD23	JRH
	T cells	CD3	JRH & NOC
	Hogkin lymphoma Reed-Sternberg cells/anaplastic large cell lymphoma cells	CD30	JRH & NOC
	Endothelial cells	CD31	JRH & NOC
	Endothelial cells	CD34	JRH & NOC
	T cells	CD4	JRH
	T cells	CD43	JRH
	Leucocytes Cells of haematopoietic origin	CD45 (Leucocyte common antigen)	JRH & NOC
	T cells	CD5	JRH
	Neural / Neuroendocrine cells / tissue, natural killer cells (NK) and NK like t-cells	CD56	JRH & NOC
	Platelets megakaryocytes	CD61	JRH
	Macrophages, osteoclasts	CD68	NOC



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Use of Bond III staining machine H236 (cont'd):	
	T cell	CD7	JRH
	B Cells	CD79a	JRH & NOC
	T Cells	CD8	JRH
	Ewings sarcoma MIC2 gene products	CD99	JRH & NOC
	De-differentiated liposarcoma/Atypical lipomatous tumour	CDK4	NOC
	Colonic epithelial cells	CDX2	JRH
	Epithelia cells Apical border of epithelial cells in colon	CEA Carcino embryonic antigen)	
	Neuroendocrine cells	Chromogranin	
	High molecular weight cytokeratins	CK5	JRH
	Stratified squamous epithelia, transitional epithelia, mesothelium	CK 5/6	NOC
	Low molecular weight cytokeratins Glandular and transitional epithelial cells	CK7	JRH & NOC
	High molecular weight cytokeratins	CK14	JRH
	Epithelial	CK8/18 (Cam 5.2)	JRH
	Epithelial	CK 19	JRH



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FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Use of Bond III staining machine H236 (cont'd):	
	Epithelial (gastro) GI epithelium/urothelium and Merkel cells	CK20	JRH & NOC
	Epithelial	CK 34βE12	JRH
	Epithelial (gastro)	CK20	JRH
	Epithelial	CK8/18 (Cam 5.2)	JRH
	GIST (Gastrointestinal Stromal Tumour)	C-Kit (CD117)	JRH
	Cytomegalovirus	CMV	JRH
	Mantle cell lymphoma	Cyclin D1	JRH
	Endothelial cells	D240 (podoplanin)	JRH
	Hairy cell leukaemia	DBA.44	JRH
	Myxoid liposaroma	DDit3	NOC
	Smooth/Striated muscle	Desmin	JRH & NOC
	GIST (Gastrointestinal Stromal Tumour)	DOG-1	JRH & NOC
	Ductal breast carcinoma	E Cadherin	JRH
	Epithelial membrane antigen	EMA	JRH & NOC
	ETS-related gene/ oncogene	ERG	JRH & NOC



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United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Oxford University Hospitals NHS Foundation Trust
Issue No: 011 Issue date: 25 February 2025

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Use of Bond III staining machine H236 (cont'd):	
	Oestrogen receptor	ER	JRH & NOC
	Lipoblasts	FABP4	NOC
	Blood coagulation factor XIIIa positive cells	Factor 13a	JRH
	Endothelial cells	Factor8 (von Willebrand Factor)	JRH
	Gastrin Hormone	Gastrin	JRH
	Urothelial/ breast carcinoma	Gata 3	JRH
	Gross cystic disease fluid protein-15	GCDPF-15	JRH
	Astrocytoma	GFAP	JRH
	Glucagon Hormone	Glucagon	JRH
	Hepatocellular carcinoma	Glutamine Synthetase	JRH
	Hepatocellular carcinoma/germ cell tumours	Glypican 3	JRH
	Giant cell tumours of bone	H3.3 G34W	NOC
	Chondroblastoma	H3K36M	NOC
	Human Chorionic gonadotrophin	HCG	JRH



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Use of Bond III staining machine H236 (cont'd):	
	Hepatocyte	He Par 1	JRH
	Muscle specific actin	HHF35	JRH & NOC
	Melanoma	HMB45	JRH & NOC
	Human papilloma virus	HPV	JRH
	Herpes simplex virus	HSV Type II	JRH
	Immunoglobulin A	IgA	JRH
	Immunoglobulin DI	IgD	JRH
	Immunoglobulin G	IgG	JRH
	IgG4 positive cells	IgG4	JRH
	Inhibin	Inhibin	JRH
	INI-expression	INI-1	JRH
	Insulin hormone	Insulin	JRH
	Kappa light chain	Kappa	JRH & NOC
	Proliferation	Mib1 (Ki67)	JRH & NOC
	Macrophage	KP1 (CD68)	JRH
	Lambda light chain	Lambda	JRH & NOC



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Use of Bond III staining machine H236 (cont'd):	
	Langerhans cells	Langerin	JRH
	Lymphoma panel	LEF-1	JRH
	Liver fatty acid binding protein	LFABP	JRH
	Lymphoma panel	Lysozyme	JRH
	Mast cell	Mast Cell Tryptase	JRH
	Melanoma / melaniocytes	Melan A	JRH & NOC
	MDM2 de-differentiated liposarcomas	MDM2	NOC
	Primary and metatatic epithelioid malignant melanoma and normal melancocytes	MITF	NOC
	Mismatch Repair Protein (MLH1)	MLH 1	JRH
	Intermediate and low molecular weight cytokeratins (broad spectrum) Majority of epithelial cells	MNF116	JRH & NOC
	Epithelial cells	MOC/31	JRH
	Mismatch Repair Protein (MSH2)	MSH 2	JRH
	Mismatch Repair Protein (MSH6)	MSH 6	JRH
	Membrane bound mucin	Mucin 4	NOC
	Lymphoid panel	MUM1	JRH
	Myeloid cells	Myeloperoxidase (MPO)	JRH



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Use of Bond III staining machine H236 (cont'd):	
	Rhabdomyosarcoma	MYF4	JRH
	Rhabdomyosarcoma	Myo D1	JRH & NOC
	Cells of skeletal muscle origin	Myogenin	NOC
	Skeletal muscle	Myoglobin	JRH
	Smooth muscle	Myosin (Smooth muscle)	JRH
	Napsin A expression (Novel Aspartic Proteinase)	Napsin A	JRH
	Neurofilament	Neurofilament	JRH
	Melanoma	NK1C3 /CD63	JRH
	Prostate Carcinoma, metastatic prostate cancer cells	NKX3.1	JRH & NOC
	Cells of neuronal and neuroendocrine origin	NSE	NOC
	Lymphoma	Oct 2	JRH
	Seminoma	Oct 3/4	JRH
	p16 protein expression	P16	JRH
	ΔNp63 protein expression	P40	JRH
	p53 protein expression	p53	JRH
	p63 protein expression Tumour suppressor gene	p63	JRH & NOC
	NTRK family tyrosine	PAN TRK	NOC



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Use of Bond III staining machine H236 (cont'd):	
	Pancreatic hormone	Pancreatic polypeptide	JRH
	Parathyroid cells	Parafibromin	JRH
	Parvo virus	Parvovirus	JRH
	B-cells	PAX5	JRH
	Paired Box (PAX) Transcription factor Metastatic renal cell, throid, gynae and kidney cancer	PAX8	JRH & NOC
	Pneumocystis carini	PCP	JRH
	Macrophage	PGM1 (CD68)	JRH
	Neuroblastoma	PHOX2B	JRH
	Placental alkaline phosphatase	PLAP	JRH
	Membranous glomerulonephritis	PLA2R	JRH
	Mismatch Repair Protein	PMS2	JRH
	Lymphatic endothelial cells	Podoplanin D2-40	NOC
	Progesterone receptor +ve cells	PR	JRH & NOC
	Prostate specific antigen	PSA (Polyclonal)	JRH & NOC
	Prostatic acid phosphatase	PSAP	JRH
	Prostate Specific Membrane Antigen, prostate carcinoma	PSMA	JRH



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Use of Bond III staining machine H236 (cont'd):	
	Retinoblastoma gene protein	Rb	NOC
	Renal cell carcinoma	R-CC	JRH
	Renin enzyme expression Justoglomerular Tumour	Renin	JRH
	Lymphoma panel cells	Ret40f	JRH
	ROS1 mutation, lung	ROS1	JRH
	Neural / melanocytic cells	S100	JRH & NOC
	Succinate Dehydrogenase B Subunit defects	SDHB	JRH
	Serotonin-containing cells	Serotonin	JRH
	Smooth muscle cells, myofibroblasts and myoepithelial cells	SMA	NOC
	Somatostatin-containing cells	Somatostatin	JRH
	Melanocytes, melanoma, peripheral nerve sheath tumours PNST	SOX10	JRH & NOC
	Mantle cell lymphoma	SOX11	JRH
	Spirochaete	Spirochaete	JRH
	Solitary fibrous tumour Stat6 (signal transducers and activators of transcription)	STAT6	JRH & NOC



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Use of Bond III staining machine H236 (cont'd):	
	Simian aids virus (Renal)	SV 40	JRH
	Neuroendocrine cells	Synaptophysin	JRH
	Synovial sarcoma	SYT (ss18-ssx)	NOC
	Uromodulin	Tamm Horsfall protein (THP)	JRH
	Thrombospondin type-1 Domain Containing Protein	THSD7a	JRH
	Lymphoma panel	TdT (339)	JRH
	Thyroid	Thyroglobulin	JRH
	Thyroid transcription factor -1 protein	TTF1	JRH & NOC
	Mesenchymal cells	Vimentin	JRH & NOC
	Plasma cells	Vs38	JRH & NOC
	Wilms tumour	WT1	JRH



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides	In-situ hybridisation to detect the following:	<u>In-situ hybridisation</u> Automated using procedures: H236 and Leica Bond III and probes as appropriate:	JRH
	Epstein Barr virus	EBER	JRH
	Lambda light chain	Lambda	JRH
	Kappa light chain	Kappa	JRH



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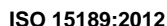
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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd) Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE sections on glass slides (cont'd)	Immunohistochemistry to detect the following:	<u>Immunohistochemistry</u> Use of the Ventana BenchMark ULTRA staining machine H295 and antibodies as appropriate:	JRH
	Human Epidermal growth factor Receptor 2 (Her 2) oncogene	HER-2	JRH
	Helicobacter pylori	H Pylori	JRH
	Human Herpes Virus - 8	HHV-8	JRH
	Adenovirus	Adenovirus	JRH
	Anaplastic lymphoma kinase (ALK) mutation, lung	ALK D5F3	JRH
	Complement Factor	C4d	JRH
	Oncoprotein LIM-only protein 2 expression, B cell	LMO2	JRH
	Programmed Death-Ligand 1 expression, lung	PD-L1	JRH
	Polymavirus	SV40	JRH
	Xp11.2 translocation Renal Cell Carcinoma	TFE3	JRH
	Complement factor	C1Q	JRH
	Complement factor	C3	JRH
	Immunoglobulin A	IgA	JRH
	Immunoglobulin G	IgG	JRH
	Immunoglobulin M	IgM	JRH



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<p>HUMAN TISSUES (cont'd)</p> <p>Digital images from slides prepared in house as above</p>	<p><u>Histopathology</u> (cont'd)</p> <p>Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Using digital pathology (slide scanners and viewing software):</p> <p>Philips Intellisite Digital Pathology Suite, H307 Use and Maintenance of Philips™ Slide Scanners:</p> <ul style="list-style-type: none"> Philips UFS Ultra Fast Whole Slide Imaging Scanner Philips UVS Ultra Versatile Whole Slide Imaging scanner Philips IMS Image Management and Storage System <p>Slide Scanning Use_and_Maintenance_of _Philips_Slide_Scanners H307</p> <p>Slide Reporting Histodata entry and authorisation using approved equipment IT05</p>	<p>JRH</p>
END			