


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

	Royal National Orthopaedic Hospital NHS Trust	
Accredited to ISO 15189:2012	Issue No: 006 Issue date: 26 February 2025	
8680	Royal National Orthopaedic Hospital NHS Trust Brockley Hill Stanmore Middlesex HA7 4LP	Contact: Simon Burn Tel: +44 (0)20 8909 5354 E-Mail: simonburn1@nhs.net Website: https://www.rnoh.nhs.uk/
Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE	Histological examinations for the purpose of clinical diagnosis	In-house documented procedures based on equipment manuals as relevant
Fixed and fresh tissue; biopsies, excisional and surgical resection	Examination of tissues to identify or exclude morphological abnormalities for the purposes of clinical diagnosis.	<u>Specimen Dissection</u>
Biopsy / open biopsy Resections Curettage		SOPTRI1 – Trimming Room Procedures
Amputation		SOPSCU1 – Surgical Cut-up
		<u>Saws</u>
		SOPL46 – EXakt saw
		<u>Decalcification of bone</u> SOPL16-decalcification SOPL5-faxitron Pathvision
Fixed tissue		<u>Tissue Processing</u> Leica Histocore Pegasus Plus tissue processors SOPL54



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HUMAN BODY TISSUE	Histological examinations for the purpose of clinical diagnosis	In-house documented procedures based on equipment manuals as relevant
Formalin Fixed tissue		<u>Tissue Embedding</u> SOPL14 – embedding procedures Myr EC 500 embedding machine and cold plate
Formalin fixed paraffin embedded tissue		<u>Microtomy</u> SOPL15 – Microtomy Leica RM2245 microtomes
Formalin fixed paraffin embedded tissue	Identification of basophilic and eosinophilic structures	<u>Haematoxylin and Eosin stain</u> Automated SOPL20 – Leica Histocore Spectra ST & CT
	Special Stains to detect the following	<u>Special staining</u> MP3 – Manual Staining
Imprints – fixed	Osteosarcoma	Alkaline phosphatase
Formalin-fixed paraffin embedded tissue	PAS +ve substances	Periodic acid Schiff (PAS) reaction
	Mycobacterium tuberculosis (TB)	Ziehl Neelsen
	Amyloid	Congo Red (Highman's)
		Automated SOPL10 –Immunohistochemistry SOPL 31 Leica Bond III
	Epithelial cells	AE1/AE3
	Inflammatory myofibroblastic	ALK
	Scattered T cells in germinal centres and mantle zone B cells	BCI2



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Formalin-fixed paraffin-embedded tissue	Immunohistochemistry to detect the following	<u>Immunohistochemistry</u> Automated SOPL10 –Immunohistochemistry SOPL 31 Leica Bond III
	Chordoma	Brachyury
	Smooth muscle cells	Caldesmon
	Myoepithelial cells	Calponin Cyclin D1
	Dendritic cells and thymocytes	CD1a
	T cells	CD3
	All germinal centre cells	CD10
	Germinal mantle zone B lymphocytes	CD20
	Mature B cells and follicular dendritic cells	CD21 CD23
	Activated lymphocytes and plasma cells. RS cells in hodgkins lymphoma	CD30
	Endothelial cells, activated B and T lymphocytes	CD31
	Endothelial cells	CD34
	All leucocytes	CD45
	Macrophages	CD68
	MIC2 gene products	CD99
	Mast cell and GIST	CD117
	Plasma cells	CD138



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Formalin-fixed paraffin-embedded tissue	Immunohistochemistry to detect the following	<u>Immunohistochemistry</u>
	Neuroendocrine	Chromogranin A
	Glandular and transitional epithelia	Cytokeratin 20
	Gastrointestinal epithelia	Cytokeratin 20
	Smooth and striated muscle cells	Desmin
	GIST	DOG1
	Epithelial membrane	EMA
	Oestrogen receptor	ER
	T cells, macrophages	ERG
	Glial fibrillary acidic protein	GFAP
	Melanoma cells	HMB45
	Chondroblastoma cells	H3-K36M
		H3K27me3
	Absence of expression on epithelioid sarcoma cells	INI/BAF47
	Proliferating cells in germinal centre B cells	Ki67
	Melanocytes	Melan A
	Cytokeratins	MNF116
	Low grade myxoid fibrosarcoma	MUC-4
	Rhabdomyosarcoma	Myogenin MYOD1



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Formalin-fixed paraffin-embedded tissue	Immunohistochemistry to detect the following	<u>Immunohistochemistry</u>
	Progesterone receptor	PR
	Squamous epithelium	P63
	Prostate	PSA Pan-TRK
	Schwannoma, malignant melanoma	S100
	Leiomyosarcoma	SMA
	Solitary fibrous tumour	STAT-6
	Neuroendocrine	Synaptophysin SMARCA4 SOX-10
	Acute lymphoblastic lymphoma	TdT
	Thyroid transcription factor-1	TTF1
	Epithelioid haemangioendothelioma (EHE)	CAMTA1
	Pseudo myogenic haemangioendothelioma	FOSB
	Histone H3.3G34W mutant cells	H3.3G34W
	Alveolar soft part sarcoma (ASPS), renal cell carcinoma, PEComas and Epithelioid haemangioendothelioma (EHE)	TFE3
	Epithelioid haemangiomas, osteoblastoma and osteoid osteoma	FOS



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HUMAN BODY TISSUE Formalin-fixed paraffin-embedded tissue	Histological examinations for the purpose of clinical diagnosis Morphological assessment and interpretation/diagnosis	In-house documented procedures based on equipment manuals as relevant <u>Interpretive Microscopy</u> SOPSCU7 –microscopic reporting of cases
HUMAN BODY TISSUE Formalin-fixed paraffin-embedded tissue	Molecular examinations for the purpose of clinical diagnosis Detection of specific gene rearrangements in solid tumours Alveolar Rhabdomyosarcoma: <i>FOXO1</i> gene rearrangement using break-apart probes. <i>PAX3/FOXO1</i> gene rearrangement using fusion probes <i>PAX7/FOXO1</i> gene rearrangement using fusion probes Aneurysmal bone cyst / Nodular Fasciitis: <i>USP6</i> gene rearrangement using break-apart probes.	In-house documented procedures based on equipment manuals as relevant <u>Molecular Biology - Fluorescence <i>in situ</i> hybridisation (interphase FISH)</u> SOPM1 – interphase FISH SOPM2 – Molecular Pathology Laboratory org. SOPM5- Using the fluorescent microscope. Olympus BX61 SOPM6 – Preparing samples or molecular genetic studies



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HUMAN BODY TISSUE	<p>Molecular examinations for the purpose of clinical diagnosis</p> <p>Angiomatoid fibrous histiocytoma, Clear cell sarcoma, Desmoplastic small round cell tumour, Extraskeletal myxoid chondrosarcoma and PNET/ Ewing's sarcoma: <i>EWSR1</i> gene rearrangement using break-apart probes.</p> <p>Atypical lipomatous tumour / well-differentiated liposarcoma, Dedifferentiated liposarcoma, Parosteal osteosarcoma <i>MDM2</i> gene amplification analysis</p>	<p>In-house documented procedures based on equipment manuals as relevant</p> <p>Molecular Biology - Fluorescence in situ hybridisation (interphase FISH) SOPM1 – interphase FISH SOPM2 – Molecular Pathology Laboratory org. SOPM5- Using the fluorescent microscope. Olympus BX61 SOPM6 – Preparing samples or molecular genetic studies</p>



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<p>HUMAN BODY TISSUE</p> <p>Formalin-fixed paraffin-embedded tissue</p>	<p>Molecular examinations for the purpose of clinical diagnosis</p> <p>Detection of specific gene rearrangements in solid tumours</p> <p>Desmoplastic small round cell tumour: <i>WT1</i> gene rearrangement using break-apart probes.</p> <p>Extraskelatal myxoid chondrosarcoma: <i>NR4A3</i> gene rearrangement using break-apart probes</p> <p>Low-grade fibromyxoid sarcoma and Myxoid liposarcoma: <i>FUS</i> gene rearrangement using break apart probes</p> <p>Myxoid liposarcoma: <i>DDIT3</i> gene rearrangement using break-apart probes</p> <p>Radiation-induced Angiosarcoma: c-MYC gene amplification analysis</p> <p>Synovial sarcoma: <i>SS18</i> gene rearrangement using break-apart probes</p> <p>Round cell carcinomas: <i>CIC</i> gene rearrangement using break apart probes</p>	<p>In-house documented procedures based on equipment manuals as relevant</p> <p><u>Molecular Biology - Fluorescence <i>in situ</i> hybridisation (interphase FISH)</u> SOPM1 – interphase FISH SOPM2 – Molecular Pathology Laboratory org. SOPM5- Using the fluorescent microscope. Olympus BX61 SOPM6 – Preparing samples or molecular genetic studies</p>



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<p>HUMAN BODY TISSUE</p> <p>Formalin-fixed paraffin-embedded tissue</p>	<p>Molecular examinations for the purpose of clinical diagnosis</p> <p>Detection of specific gene rearrangements in solid tumours</p> <p>Dermatofibrosarcoma protuberans: <i>COL1A1-PDGFB</i> rearrangement using break apart probes</p> <p>Alveolar Rhabdomyosarcoma: <i>PAX3-FOXO1</i> gene rearrangement and <i>PAX7-FOXO1</i> using fusion probes</p> <p>Detection of specific fusion transcripts in solid tumours</p> <p>Alveolar Rhabdomyosarcoma: <i>PAX3/FOXO1</i> <i>PAX7/FOXO1</i></p> <p>Angiomatoid fibrous histiocytoma <i>EWSR1/CREB1</i> <i>EWSR1/ATF1</i></p>	<p>In-house documented procedures based on equipment manuals as relevant</p> <p><u>Molecular Biology - Fluorescence <i>in situ</i> hybridisation (interphase FISH)</u> SOPM1 – interphase FISH SOPM2 – Molecular Pathology Laboratory org. SOPM5- Using the fluorescent microscope. Olympus BX61 SOPM6 – Preparing samples or molecular genetic studies</p> <p><u>Nucleic Acid Extraction</u> manual method using in house procedures SOPM3-</p> <p><u>Reverse Transcription-PCR RT-PCR</u> SOPM4 –PCR</p> <p>SOPM6 – Preparing samples or molecular genetic studies.</p>



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HUMAN BODY TISSUE	<p>Molecular examinations for the purpose of clinical diagnosis</p> <p>Detection of specific fusion transcripts in solid tumours</p> <p>Alveolar soft part sarcoma ASPCR1/TFE3</p> <p>Clear cell sarcoma, EWSR1/ATF1 EWSR1/CREB1</p> <p>Desmoplastic small round cell tumour: EWSR1/WT1</p> <p>Extraskeletal myxoid chondrosarcoma: EWSR1/NR4A3 TAF15/NR4A3</p> <p>Low-grade fibromyxoid sarcoma: FUS/CREB3L2</p>	<p>In-house documented procedures based on equipment manuals as relevant</p> <p><u>Nucleic Acid Extraction</u> manual method using in house procedures SOPM3-</p> <p><u>Reverse Transcription-PCR RT-PCR</u> SOPM4 –PCR</p> <p>SOPM6 – Preparing samples or molecular genetic studies.</p>



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HUMAN BODY TISSUE	Molecular examinations for the purpose of clinical diagnosis	In-house documented procedures based on equipment manuals as relevant
Formalin-fixed paraffin-embedded tissue	Detection of specific fusion transcripts in solid tumours	Reverse Transcription-PCR RT-PCR SOPM4 –PCR Eppendorf Nexus
	Mesenchymal chondrosarcoma: HEY1/NCOA2	SOPM6 – Preparing samples or molecular genetic studies.
	Myxoid liposarcoma: FUS/DDIT3	
	Nodular Fasciitis: MYH9/USP6	
	PNET/ Ewing's sarcoma: EWSR1/FLI1 EWSR1/ERG	
	Synovial sarcoma: SS18/SSX1 SS18/SSX2	
	Small round cell sarcomas: BCOR/CCNB3	
	Epithelioid haemangioendothelioma: WWTR1/CAMTA1	



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<p>HUMAN BODY TISSUE</p> <p>Formalin-fixed paraffin-embedded tissue</p>	<p>Molecular examinations for the purpose of clinical diagnosis</p> <p>Detection of specific point mutations in solid tumours for detection of specific fusion transcripts in solid tumours</p> <p>Desmoid-type fibromatosis: CTNNB1 mutation analysis – exon3- p.T41A, p.S45P and p.S34F substitutions</p> <p>Fibrous dysplasia / intramuscular myxoma: GNAS1 mutation analysis p.R201H p.R201C and p.Q227L</p>	<p>In-house documented procedures based on equipment manuals as relevant</p> <p><u>PCR and Restriction enzyme digestion PCR</u> SOPM4 –PCR Techne TC4000 SOPM6 – Preparing samples or molecular genetic studies.</p>
END		