

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>8534</b> Accredited to ISO 15189:2022	<b>The Newcastle-upon-Tyne Hospitals NHS Foundation Trust</b>	
	<b>Issue No: 011</b>	<b>Issue date: 16 December 2025</b>
	<b>Department of Cellular Pathology</b> Level 3, New Victoria Wing Royal Victoria Infirmary Queen Victoria Road Newcastle upon Tyne NE1 4LP	<b>Contact: Emma Doran</b> <b>Tel: +44 (0)191 2824445</b> <b>E-Mail: emma.doran3@nhs.net</b> <b>Website: www.newcastlelaboratories.com</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

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

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> Department of Cellular Pathology Level 3, New Victoria Wing Royal Victoria Infirmary Queen Victoria Road Newcastle upon Tyne NE1 4LP	<b>Local contact</b> Mrs Emma Doran	Mortuary Services and Body Store Histopathology Special Stains Immunocytochemistry Diagnostic Cytology Molecular Pathology Electron Microscopy Neuropathology Specimen dissection	1



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#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
<b>Address:</b> Freeman Hospital Freeman Road High Heaton Newcastle upon Tyne NE7 7DN  <b>Local contact</b> Mrs Emma Doran	Mortuary Services and Body Store Endobronchial Ultrasound (EBUS) clinic	2
<b>Address:</b> Muscle Immunoanalysis Unit Lower Ground Floor Dental Hospital Richardson Road Newcastle upon Tyne NE2 4AZ  <b>Local contact</b> Mrs Emma Doran	Muscle histochemistry	3



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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 FLUIDS and TISSUES	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>	Documented in house methods incorporating manufacturers' instructions where relevant:	
Tissue samples	<u>Histopathology</u>	Tissue processing Documented procedure & manufacturer's instructions using Leica Peloris II & III using , HIML111, HIML146 and HINP023	1
		Specimen Dissection Manual method using documented procedures in the range HIHD003-116 plus HINP034, HINP054 and HISR080	1
		Decalcification of tissue samples using documented procedure HISR120	
		Tissue embedding using Leica Arcadia embedding centre – HIML012, HIML015 HIEM004	1
Formalin Fixed Paraffin Embedded Tissue (FFPE) (Resin blocks for ultramicrotomy)		Tissue sectioning including ultramicrotomy Manual methods using manufacturer's instructions for Leica/Thermo fisher Microtomes and HIML016, HIML018, HIML116, HIEM040,	1



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant:	
Resin prepared blocks	Examination of cellular structures	Transmission Electron Microscopy using Jeol JEM 1011 transmission electron microscope using in house documented procedures HIEM029 and manufacturer's instructions; HIEM004, HIEM058, HIEM006, HIEM007	1
Fixed tissue samples	Routine staining for identification of basophilic and eosinophilic structures	Routine Automated staining (H&E) Documented procedure & manufacturer's instructions using Dako Coverstainers, HIML137	1
		Manual staining by documented procedure HIML043.	1
Fixed tissue samples	Special staining to identify the following:	Manual staining by documented procedures listed below	1
	Acid Mucins	Alcian Blue (HIML032)	1
	Glycoaminoglycans, Acid mucins	Alcian Blue DPAS (HIML088)	1
	Acid and Neutral mucins	Alcian Blue/PAS (HIML088)	1
	Amyloid	Congo Red (HIML141)	1
	Glycogen Digestion	Diastase PAS (HIML057, CYSL029)	1
Semi thin resin block	Semi thin analysis of nerves	Thionine Blue (HIEM006)	1
	Elastic/Muscle/Connective tissue	Elastic Van Gieson (HIML037)	1



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant:	
	Plasma cell cytoplasm Mast cell granules Neutrophil granules Eosinophil granules Cytoplasm of erythroid precursors Other cytoplasm	Giemsa pH 5.0 (Bone Marrow trephines- HIML038.1)	1
	Gram positive and Gram negative bacteria	Gram (HIML039)	1
Fixed tissue samples (cont'd) Unless stated	Fungi	Grocott (HIML097)	1
	Special staining to identify the following: (cont'd)	Manual staining by documented procedures listed below	1
	Helicobacter	Heavy Giemsa (HIML038)	1
	Plaques in Alzheimer's	Methenamine Silver (HINP098)	1
	Melanin	Masson Fontana (HIML048)	1
	Mitochondria, myelin of nerves, nemaline rods	Modified Gomori (HIMN041)	1
	Fibrin	MSB (HIML053)	1
	Erythrocytes Muscle/cytoplasm Connective tissue Nuclei	Masson Trichrome (HIML049)	1
	Modified bacilli and atypical bacilli	Modified Ziehl Neelsen (HIML070)	1
	Hepatitis B surface antigen, copper associated protein	Orcein / Shikata (HIML056)	1



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Fixed tissue samples (cont'd) Unless stated	Special staining to identify the following: (cont'd)	Manual staining by documented procedures listed below	
Fresh tissue	Adipose cells	Oil Red O (HIML055)	1
	Fungi/Glycogen/Mucins	PAS (CYSL029, HIML057, )	1
	Glomerular Basement membrane	PASilver (HIML099)	1
	Iron	Perls Iron (HIML046)	1
	Reticulin	Reticulin Gordon Sweets (HIML061)	1
	Glomerular Basement membrane	PASilver (HIML099)	1
	Lipid droplets	Sudan Black (HIMN036)	3
	Mast cells	Toluidine Blue (HIML064)	1
	Collagen	Van Gieson (HIML066)	1
	Calcium	Von Kossa (HIML067)	1
	Acid fast tubercle bacteria	Ziehl Neelsen (HIML069)	1



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Fresh muscle samples	Special staining to identify the following:	Enzyme Histochemistry Manual staining by documented procedures listed below	3
Fresh muscle biopsies	Lysosomal storage disorders and vacuolar myopathies.	Acid Phosphatase (HIMN008.0)	3
	Fibre type pattern, fibres devoid of activity	Cytochrome Oxidase (HIMN016.0)	3
	Fibres devoid of cytochrome oxidase activity appear blue.	Combined Cox SDH (HIMN015)	3
	Absent/deficient in exertional myalgia.	Myoadenylate deaminase (HIMN009.0)	3
	Distribution and involvement of fibre types and their subtypes.	ATP pH 4.3 (HIMN011.0)	3
	Fibre type pattern, distribution of mitochondria, myofibrillar disruption.	Nicotinamide Adenine Dinucleotide (HIMN031.0)	3
Fresh tissue samples	Histiocytes, lysosomes, neuromuscular and myotendinous junctions.	Non-specific esterase (HIMN018.0)	3
	Absent in type VII glycogenosis	Phosphofructokinase (HIMN046)	3
	Control for PFK	Aldolase (HIMN049)	3
	Absent in type V glycogenosis (McArdle's disease)	Myophosphorylase A B (HIMN033.0)	3
	Fibre type pattern, fibres with abnormal mitochondria	Succinate Dehydrogenase (HIMN035.0)	3



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Fresh tissue samples (cont'd)	Distribution and involvement of fibre types and their subtypes	ATP pH 4.6 (HIMN011.0)	3
	Immunofluorescence examination for the purposes of clinical diagnosis	Microscopic examination supported by manual labelling of tissue with fluorescent antibodies (using HIIC 156) Cryotomy using Leica Cryostat and documented procedures HIIC155	1
	Immune deposits in renal biopsies	C1Q FITC	1
	Immune deposits in bullous pemphigoid	C3 FITC	1
	Stains fibrinogen (buccal immunofluorescence)	FIBRINOGEN FITC	1
	IgA immunoglobulins (IMF)	IgA FITC	1
	IgG immunoglobulins (IMF)	IgG FITC	1
	IgM deposits (IMF)	IgM FITC	1
	Kappa Light chains (FITC)	KAPPA FITC	1
	Lambda light chains	LAMBDA FITC	1





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Fixed tissue samples	Immunocytochemistry for the identification of:	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 & HIIC123	
	Pituitary adenoma	ACTH	1
	Detection of Adenovirus	Adenovirus	1
	Cocktail comprising high- and low-molecular weight cytokeratins.	AE1/AE3	1
	Germ cell tumours and hepatocellular carcinoma.	AFP	1
	Lung AdenoCa with EML4 mutation.	ALK D5F3	1
	Acinar cells of the pancreas and hepatocytes	Alpha-1 antitrypsin	1
	Hepatocellular carcinoma.	Arginase (Liver arginase)	1
	T-cell lymphocytes.	BCL-2	1
	B-cell lymphocytes.	BCL-6	1
	Differentiates adenocarcinoma from mesothelioma.	Ber-EP4	1
	Differentiates BCC from SCC.	BerEp4 and S100 Cocktail	1
	Detects BRAF mutation in melanoma.	BRAFV600E	1
	Breast tumours with apocrine gland features.	BRST-2	1



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Fixed tissue samples (cont'd)	Immunocytochemistry for the identification of: (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 & HIIC123	
	Peritubular and glomerular capillaries.	C4d	1
	Tumours of lung, endometrium and ovarian origin.	CA125	1
	Pancreatic disease/tumour.	CA19.9	1
	Medullary thyroid tumours.	Calcitonin	1
	Mesothelioma.	Calretinin	1
	Follicular lymphoma.	CD10	1
	GIST tumours	CD117	1
	Subset of T-cells.	CD123	1
	Epithelium. Normal/malignant plasma cells.	CD138	1
	Monocytes, macrophages, Langerhan's cells.	CD14	1
	Endothelial marker	CD141	1
	Hodgkin's lymphoma.	CD15	1
	B cells and follicular dendritic cells.	CD19	1
	Langerhan's cells	CD1A	1



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Fixed tissue samples (cont'd)	Immunocytochemistry for the identification of: (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 & HIIC123	
	Pan-T cell marker.	CD2	1
	Pan B cell marker	CD20	1
	Follicular dendritic cells.	CD21	1
	Follicular dendritic cells.	CD23	1
	Pan—T cell marker.	CD3	1
	Reed Sternberg cells.	CD30	1
	Endothelial cells	CD31	1
	Myeloid cells.	CD33	1
	Endothelial cells.	CD34	1
	Helper T cells.	CD4	1
	Megakaryocytes.	CD42b	1
	T, plasma, myeloma cells.	CD43	1
	Pan-lymphocyte marker.	CD45	1
	T cells, B cells in mantle.	CD5	1
	Neuroendocrine tumour.	CD56	1
	Killer cells.	CD57	1
	Megakaryocytes.	CD61	1



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Fixed tissue samples (cont'd)	Immunocytochemistry for the identification of: (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 & HIIC123	
	Macrophages, granulocytes.	CD68K	1
	T cells.	CD7	1
	Identification of nucleated erythroid precursor cells	CD71	1
	Pan B cell marker.	CD79a	1
	Natural killer T cells.	CD8	1
	Neuroectodermal tumour cells.	CD99	1
	Intestinal epithelium.	CDX-2	1
	Adenocarcinoma	CEA (mono)	1
	Adenocarcinoma.	CEA(poly)	1
	Neuroendocrine cells.	Chromogranin	1
	Pancreas.	Chymotrypsin	1
	Bowel epithelia	CK18	1
	GI tract epithelia	CK19	1
	Small bowel / stomach epithelia	CK20	1
	Basal epithelial cells.	CK5/6, CK34Be12, CK14	1



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Fixed tissue samples (cont'd)	Immunocytochemistry for the identification of: (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 & HIIC123	
	Glandular / transitional epithelium.	CK5D3	1
	Breast, lung, endometrial adeno Ca.	CK7	1
	Ductal and gland epithelium.	CK8	1
	Broad spectrum epithelial marker.	CKMNF	1
	CMV infection.	CMV	1
	Mantle Cell lymphoma.	CYCD1	1
	Cocktail of melanocyte marker with indicator of proliferation.	KI67/MEL Cocktail	1
	Lymphatic endothelium.	D240	1
	Desmin filaments in muscle.	Desmin	1
	GIST marker.	DOG-1	1
	EBV infection.	EBV	1
	Epithelial marker.	E-Cadherin	1
	Epithelial cells.	EMA	1
	Breast tumours (hormone receptor)	ER	1



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Fixed tissue samples (cont'd)	Immunocytochemistry for the identification of: (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 & HIIC123	
	Endothelial cells.	ERG (Ets related gene)	1
	Diagnosis of dermatofibromas.	Factor 13a	1
	Endothelial cells	Factor 8(e)	1
	Pituitary adenoma	Follicle SH	1
	Thyroid carcinoma.	GAL-3	1
	Indicates suitability for Herceptin therapy.	GASTRIC HER2	1
	Peptide hormone gastrin.	GASTRIN	1
	GATA Binding Protein 3	GATA3	1
	Demonstrates astrocytes	GFAP	1
	Urology- Confirmation of yolk sac tumour within germ cell tumour, and choriocarcinoma. Liver- Aid diagnosis of HCC, differentiation from benign lesions and other malignancies	Glypican 3	1
	Cytotoxic T cells	GRANZYME B	1
	Helicobacter Pylorii	H.PYLOR	1
	Mesothelioma	HBME1	1



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Fixed tissue samples (cont'd)	Immunocytochemistry for the identification of: (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 & HIIC123	
	Smooth muscle - leiomyomas	H-CALDESMON	1
	Germ cell tumour marker	HCG	1
	Hepatocytes	Hepatocyte	1
	Pituitary adenoma	Human Growth Hormone	1
	Herpes virus – Kaposi's sarcoma	HHV8	1
	Melanocytic cells	HMB45	1
	Herpes simplex virus Type II	HSVII	1
	Astrocytoma/ oligodendroglial tumours	IDH1	1
	IgA immunoglobulins	IgA	1
	IgD immunoglobulins	IgD	1
	IgG immunoglobulins	IgG	1
	IgM immunoglobulins	IgM	1
	Mantle zones / plasma cells	Kappa	1
	Proliferation marker	KI-67	1
	Lambda light chains	Lambda	1
	Lin-28 homolog A	LIN28	1



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	Pituitary adenoma	Luteinising Hormone	1
	Mast cells	MCTryp	1
	Melanocytes/melanomas	MEL A	1
	MSI panel for Lynch syndrome	MLH1	1
	MSI panel for Lynch syndrome	MSH2, MSH6	1
	Germinal centre B cells, plasma cells and activated t cells	MUM-1	1
	Rhabdomyosarcoma and Wilm's tumours	Myogenin	1
	Skeletal and cardiac muscle	Myoglobin	1
	Smooth muscle	Myosin	1
	Axonal marker	Neurofilament	1
	Napsin	Napsin	1
	Germ cell tumours	Oct3/4	1
	HPV marker	P16	1
	Tumour suppressor gene	P53	1
	Basal cell epithelium	P63	1





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Fixed tissue samples (cont'd)	Immunocytochemistry for the identification of: (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 & HIIC123	
	Prostatic Intraepithelial neoplasia	PIN Cocktail	1
	Anaplastic large cell lymphomas	P80	1
	Chief cells of parathyroid	Parathyroid Hormone	1
	Parvovirus	Parvovirus	1
	B cells	PAX-5	1
	Cytotoxic T cells	Perforin	1
	Paired-box gene 8	PAX8	1
	Progesterone – steroid hormone receptor	PGR	1
	Placenta	PLAP	1
	Programmed Death 1	PD1	1
	Programmed Death Ligand 1	PDL1	1
	MSI panel for Lynch syndrome	PMS2	1
	Pituitary adenoma	Prolactin	1
	Preferentially expressed antibody in melanoma	PRAME	1
	Prostatic adenocarcinoma	PSA	1



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	Prostatic carcinoma and metastases	PSAP	1
	Phosphatase and tensin	PTEN	1
	Prostatic Intraepithelial neoplasia	Racemase	1
	Renal cell carcinomas	RCC	1
	Erythrocytes and precursors	RET40f	1
	Proto-oncogene tyrosine-protein kinase ROS	Ros-1	1
	Nerves, glial cells, melanoma marker	S100	1
	Smooth muscle and tumours	SMA	1
	Melanoma subtypes	SOX 10	1
	Polyoma virus	SV40	1
	Synaptic and neuroendocrine	Synaptophysin	1
	Syphilis	Treponema.Pallidum	1
	TLE Family Member 1	TLE-1	1
	Lymphoblastic leukaemia	TDT	1
	Thyroid follicular carcinoma	Thyroglobulin	1



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**Newcastle-upon-Tyne Hospitals NHS Foundation Trust**

**Issue No: 011      Issue date: 16 December 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 BODY FLUIDS and TISSUES (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant:	
Fixed tissue samples (cont'd)	Immunocytochemistry for the identification of: (cont'd)	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 & HIIC123	
	Renal cell carcinoma subset	Transcription Factor E3	1
	Thyroid/ thyroid tumours	TTF-1	1
	Vascular smooth muscle/fibroblasts/endothelial cells/Langerhan's cells	Vimentin	1
	Varicella Zoster virus	VZV	1
	Glomeruli, proliferating mesothelial cells	WT1(poly)	1
Fresh muscle samples	Assessment of Xp21 muscular dystrophies.	b-dyst	1
	To assess preservation of the plasmalemma in muscle.	b-spec	1
	Diagnosis of Xp21 muscular dystrophies	Dyst C & N	1
	Diagnosis of Emery-Dreifuss muscular dystrophy	Emerin	1
	Diagnosis of limb girdle muscular dystrophies 2C-F	G-sarc	1
	Assessment of muscular dystrophies	Laminin Alpha 2	1
	Assessment of myositis and muscular dystrophies	Utrophin	1



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant:	
Tissue samples	Demonstration of gene sequences for the purpose of disease diagnosis	In House documented procedure & manufacturer's instructions using the following: Automated in situ hybridisation instruments (Ventana Benchmark XT and Ultra) using HIIC122 & HIIC123  EBVISH, HER2 dual ISH (Roche) / Chr17 Breast and Gastric as per (HIMP085 and HIMP086) HR-HPV Probe, Kappa Probe, Lambda Probe	1
Fresh Tissue (inc. brain, muscle)	<u>Neuropathology</u>	In House documented procedure & manufacturer's instructions using the following:  Cryotomy using Leica/Thermo Cryostats and documented procedures HISR051, HINP153, HIMN004	1 & 3
Fixed tissue samples	Routine H&E staining for identification of basophilic and eosinophilic structures  <u>Cytopathology</u>	Manual staining by documented procedure HINP082  In House documented procedure & manufacturer's instructions using the following:	1
Wet fixed preparations - Body Fluids, urine, CSFs, aspirates, washings, brushings		Processing - Manual methods using documented procedures in the range: CYPL006-008	1



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant:	
	<u>Cytopathology</u> (cont'd)	In House documented procedure & manufacturer's instructions using the following:	
Air-dried Preparations Body Fluids, CSFs	Detection of abnormal cells	Manual staining of Papanicolaou (CYSL028), PAS/DPAS (CYSL029)	1
FNA Wet fixed preparations Breast, Thyroid, Lymph nodes		Automated Papanicolaou staining using documented procedures & manufacturer's instructions on the following equipment - Gemini stainer (CYSL036) and BD Totalys Slideprep (CYPL032, CYPL033, CYPL034)	1
FNA and body fluids	May Grunwald Giemsa	Documented procedures & manufacturer's instructions using the Aerospray Haematology 7152 Pro Slide stainer (CYSL059)	1
FNA samples	Rapid on-site evaluation at Endobronchial Ultrasound (EBUS) clinic	Manual preparation and staining using Diff-Quik as detailed in CYSL001	1
Prepared slides	Morphological assessment and interpretation/diagnosis	Diagnostic microscopy using Microscopes (Cell-Path-Med-Trn-08) – used to QC special stains – used to QC IHC slides – used to screen slides for control tissue for IHC – used as a polarizing microscope HIML 141	1&3
END			