


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 UKAS MEDICAL 8534 Accredited to ISO 15189:2012	The Newcastle-upon-Tyne Hospitals NHS Foundation Trust	
	Issue No: 006 Issue date: 13 August 2021	
	Department of Cellular Pathology Level 3, New Victoria Wing Royal Victoria Infirmary Queen Victoria Road Newcastle upon Tyne NE1 4LP	Contact: Emma Doran Tel: +44 (0)191 2824445 E-Mail: emma.doran3@nhs.net Website: www.newcastlelaboratories.com
Testing performed at the above address only		

Laboratory locations:

Location details	Activity
Address: Department of Cellular Pathology Level 3, New Victoria Wing Royal Victoria Infirmary Queen Victoria Road Newcastle upon Tyne NE1 4LP	Local contact: Mrs Emma Doran
Address: Freeman Hospital Freeman Road High Heaton Newcastle upon Tyne NE7 7DN	



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21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

The Newcastle-upon-Tyne Hospitals NHS Foundation Trust

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Testing performed by the Organisation at the locations specified

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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>	Specimen Dissection Manual method using documented procedures in the range HIHD003 – 073 plus HINP034, HINP045, HISR034, HISR080 and HISR133. Tissue processing including neuro samples Documented procedure & manufacturer's instructions using Leica Peloris II, ThermoShandon Pathcentre and Tissue Tek VIP 5 in the range HISR002 - 150 Decalcification of tissue samples using documented procedure HISR120 Tissue embedding using Leica Arcadia embedding centre – HIML012, HIML015 HIEM004
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 HIML015, HIML016, HIML018, HIML116, HIMN004, HIEM040, HIEM031 and HISR051
Fresh Tissue (inc. brain, muscle)		Cryotomy using Leica/thermo Cryostats and documented procedures
Resin prepared blocks	Examination of cellular structures	Transmission Electron Microscopy using Jeol JEM 1011 transmission electron microscope using in house documented procedures HIEM054 and manufacturer's instructions HIEM004, HIEM058, HIEM006, HIEM007, HIEM029



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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 (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant:
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. Manual staining by documented procedure HIML043.
Fixed tissue samples	Special staining to identify the following:	Manual staining by documented procedure HIML043 and procedures listed below
	Acid Mucins	Alcian Blue (HIML032)
	Glycoaminoglycans, Acid mucins	Alcian Blue DPAS (HIML088)
	Acid and Neutral mucins	Alcian Blue/PAS (HIML088)
	Elastic/Alopecia cases	Acid Orcein Giemsa (HIML130)
	Helicobacter sp & Neurons	Cresyl Fast Violet (HINP069)
	Amyloid	Congo Red (HINP068, HIML141)
	Glycogen Digestion	Diastase PAS (HIML057, CYSL029,)



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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:
Fixed tissue samples (cont'd) Unless stated	Special staining to identify the following: (cont'd)	Manual staining by documented procedure HIML043 and procedures listed below (cont'd)
Semi thin resin block	Semi thin analysis of nerves	Thionine Blue (HIEM006)
	Elastic/Muscle/Connective tissue	Elastic Van Gieson (HIML037)
Frozen tissue	Intraoperative Diagnosis	H-E frozen tissue (HISR051, HINP036)
	Neurofibrillary tangles	Gallyas (HINP076)
	Plasma cell cytoplasm	Giemsa pH 5.0 (Bone Marrow trephines- HIML038.1)
	Mast cell granules	
	Neutrophil granules	
	Eosinophil granules	Giemsa (HIML130)
	Cytoplasm of erythroid precursors	
	Other cytoplasm	
	Gram positive and Gram negative bacteria	Gram (HINP079, CYSL019, HIML039)
	Fungi	Grocott (CYSL021, HINP081, HIML097)
	Helicobacter	Heavy Giemsa (HIML038)
	Myelin in CNS/PNS	LFB/CFV (HINP090)
	Myelin in CNS/PNS	Loyez (HINP092)



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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Fixed tissue samples (cont'd)</p> <p>Fresh tissue</p>	<p><u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u></p> <p>Special staining to identify the following: (cont'd)</p> <p>Removal of melanin</p> <p>Plaques in Alzheimer's</p> <p>Melanin</p> <p>Mitochondria, myelin of nerves, nemaline rods</p> <p>Carbohydrates with reduced background</p> <p>Fibrin</p> <p>Erythrocytes Muscle/cytoplasm Connective tissue Nuclei</p> <p>Modified bacilli and atypical bacilli</p> <p>Hepatitis B surface antigen, copper associated protein</p> <p>Adipose cells</p> <p>Fungi/Glycogen/Mucins</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Manual staining by documented procedure HIML043 and procedures listed below (cont'd)</p> <p>Melanin Bleach (HIML051, HINP097, CYSL027)</p> <p>Methenamine Silver (HINP098)</p> <p>Masson Fontana (CYSL025, HINP094, HIML048)</p> <p>Modified Gomori (HIMN041)</p> <p>Modified PAS (HIML093)</p> <p>MSB (HIML053)</p> <p>Masson Trichrome (HINP095, HIML049)</p> <p>Modified Ziehl Neelsen(HIML070)</p> <p>Orcein / Shikata (HIML046)</p> <p>Oil Red O (HINP102, HIML055)</p> <p>PAS (CYSL029, HIML057,)</p>



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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 (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant:
Fixed tissue samples (cont'd)	Special staining to identify the following: (cont'd)	Manual staining by documented procedure HIML043 and procedures listed below (cont'd)
	Glomerular Basement membrane	PASilver (HIML099)
	Iron	Perls Iron (CYSL030, HIML046)
	Reticulin	Reticulin Gordon Sweets (HINP111, HIML061)
	Copper	Rhodanine (HIML117)
	Myelin in CNS/PNS	Solochrome Cyanin (HIML063)
	Amyloid	Sirius Red (HIML072, HINP116)
	Connective tissue/collagen	Sirius Red Fast Green (HIML062)
	Lipid droplets	Sudan Black (HIMN036, HINP118)
	Mast cells	Toluidine Blue (HIML064)
	Collagen	Van Gieson (HIML066)
	Calcium	Von Kossa (HINP122, HIML067)
	Acid fast tubercle bacteria	Ziehl Neelsen (HINP123, CYSL032, HIML069)
Fresh rectal biopsies	Diagnosis of Hirschsprung's disease	Acetylcholinesterase (HIIC025)
Fresh muscle samples	Special staining to identify the following: (cont'd)	Enzyme Histochemistry Manual staining by documented procedure HIML043 and procedures listed below (cont'd)
Fresh muscle biopsies	Lysosomal storage disorders and vacuolar myopathies.	Acid Phosphatase (HIMN008.0)



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<p><u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u></p> <p>Fibre type pattern, fibres devoid of activity</p> <p>Fibres devoid of cytochrome oxidase activity appear blue.</p> <p>Absent/deficient in exertional myalgia.</p> <p>Distribution and involvement of fibre types and their subtypes.</p> <p>Fibre type pattern, distribution of mitochondria, myofibrillar disruption.</p> <p>Histiocytes, lysosomes, neuromuscular and myotendinous junctions.</p> <p>Absent in type VII glycogenosis</p> <p>Control for PFK</p> <p>Absent in type V glycogenosis (McArdle's disease)</p> <p>Fibre type pattern, fibres with abnormal mitochondria</p> <p>Distribution and involvement of fibre types and their subtypes</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Cytochrome Oxidase (HIMN016.0)</p> <p>Combined Cox SDH (HIMN015)</p> <p>Myoadenylate deaminase (HIMN009.0)</p> <p>ATP pH 10.2 (HIMN011.0)</p> <p>Nicotinamide Adenine Dinucleotide (HIMN031.0)</p> <p>Non-specific esterase (HIMN018.0)</p> <p>Phosphofructokinase (HIMN046)</p> <p>Aldolase (HIMN046)</p> <p>Myophosphorylase A B (HIMN033.0)</p> <p>Succinate Dehydrogenase (HIMN035.0)</p> <p>ATP pH 4.6 (HIMN011.0)</p>
Fresh tissue samples (cont'd)	<p>Immunofluorescence examination for the purposes of clinical diagnosis</p> <p>Immune deposits in renal biopsies</p> <p>Immune deposits in bullous pemphigoid.</p>	<p>Microscopic examination supported by manual labelling of tissue with fluorescent antibodies based on</p> <p>C1Q FITC</p> <p>C3 FITC</p>



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<p><u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u></p> <p>Stains fibrinogen (buccal immunofluorescence)</p> <p>IgA immunoglobulins (IMF)</p> <p>IgG immunoglobulins (IMF)</p> <p>IgM deposits (IMF)</p> <p>Kappa Light chains (FITC)</p> <p>Lambda light chains</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>FIBRINOGEN FITC</p> <p>IgA FITC</p> <p>IgG FITC</p> <p>IgM FITC</p> <p>Indirect IMF (salt split skin)</p> <p>KAPPA FITC</p> <p>LAMBDA FITC</p>
Fixed tissue samples	<p>Immunocytochemistry for the identification of:</p> <p>Pituitary adenoma</p> <p>Detection of Adenovirus</p> <p>Cocktail comprising high- and low-molecular weight cytokeratins.</p> <p>Germ cell tumours and hepatocellular carcinoma.</p> <p>Lung AdenoCa with EML4 mutation.</p>	<p>In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 - 124</p> <p>ACTH</p> <p>Adenovirus</p> <p>AE1/AE3</p> <p>AFP</p> <p>ALK D5F3</p>



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Fixed tissue samples (cont.d)	Immunocytochemistry for the identification of:	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 - 124
	Acinar cells of the pancreas and hepatocytes	Alpha-1 antitrypsin
	Activating molecule in Beclin 1 autophagy	AMBRA 1
	Hepatocellular carcinoma.	Arginase (Liver arginase)
	Atypical CNS tumours with rhabdoid changes	BAF47 PROTEIN MARKER
	GI tract epithelium.	B-Cat
	T-cell lymphocytes.	BCL-2
	B-cell lymphocytes.	BCL-6
	Differentiates adenocarcinoma from mesothelioma.	Ber-EP4
	Differentiates BCC from SCC.	BerEp4 and S100 Cocktail
	Detects BRAF mutation in melanoma.	BRAFV600E
	Breast tumours with apocrine gland features.	BRST-2
	Peritubular and glomerular capillaries.	C4d



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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 - 124
	Tumours of lung, endometrium and ovarian origin.	CA125
	Pancreatic disease/tumour.	CA19.9
	Medullary thyroid tumours.	Calcitonin
	Mesothelioma.	Calretinin
	Follicular lymphoma.	CD10
	Hairy cell leukaemia.	CD103
	GIST tumours	CD117
	Subset of T-cells.	CD123
	Epithelium. Normal/malignant plasma cells.	CD138
	Monocytes, macrophages, Langerhan's cells.	CD14
	Endothelial marker	CD141
	Hodgkin's lymphoma.	CD15
	B cells and follicular dendritic cells.	CD19
	Langerhan's cells	CD1A



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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 - 124
	Pan-T cell marker.	CD2
	Pan B cell marker	CD20
	Follicular dendritic cells.	CD21
	Subset of B cells.	CD22
	Follicular dendritic cells.	CD23
	Pan—T cell marker.	CD3
	Reed Sternberg cells.	CD30
	Endothelial cells	CD31
	Myeloid cells.	CD33
	Endothelial cells.	CD34
	Helper T cells.	CD4
	Megakaryocytes.	CD42b
	T, plasma, myeloma cells.	CD43
	Pan-lymphocyte marker.	CD45
	T cells, B cells in mantle.	CD5
	Neuroendocrine tumour.	CD56
	Killer cells.	CD57
	Megakaryocytes.	CD61



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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 - 124
	Macrophages, granulocytes.	CD68K
	Macrophages, granulocytes.	CD68p
	T cells.	CD7
	Identification of nucleated erythroid precursor cells	CD71
	Mature B cells in germinal centres.	CD75
	Pan B cell marker.	CD79a
	Natural killer T cells.	CD8
	Neuroectodermal tumour cells.	CD99
	Intestinal epithelium.	CDX-2
	Adenocarcinoma	CEA (mono)
	Adenocarcinoma.	CEA(poly)
	Neuroendocrine cells.	Chromogranin
	Pancreas.	Chymotrypsin
	Bowel epithelia	CK18
	GI tract epithelia	CK19
	Small bowel / stomach epithelia	CK20
	Basal epithelial cells.	CK5/6, CK34Be12, CK14



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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 - 124
	Glandular / transitional epithelium.	CK5D3
	Breast, lung, endometrial adeno Ca.	CK7
	Ductal and gland epithelium.	CK8
	Broad spectrum epithelial marker.	CKMNF
	CMV infection.	CMV
	Mantle Cell lymphoma.	CYCD1
	Cocktail of melanocyte marker with indicator of proliferation.	KI67/MEL Cocktail
	Lymphatic endothelium.	D240
	Hairy cell leukaemia.	DBA44
	Desmin filaments in muscle.	Desmin
	GIST marker.	DOG-1
	EBV infection.	EBV
	Epithelial marker.	E-Cadherin
	Epithelial cells.	EMA



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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 - 124
	Breast tumours (hormone receptor)	ER
	Endothelial cells.	ERG (Ets related gene)
	Diagnosis of MDC1A (Merosin deficient congenital muscular dystrophy)	Lam-a2
	Diagnosis of dermatofibromas.	Factor 13a
	Endothelial cells	Factor 8(e)
	Pituitary adenoma	Follicle SH
	Thyroid carcinoma.	GAL-3
	Indicates suitability for Herceptin therapy.	GASTRIC HER2
	Peptide hormone gastrin.	GASTRIN



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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 - 124
	Melanocytic cells	HMB45
	Herpes simplex virus Type I	HSVI
	Herpes simplex virus Type II	HSVII
	Astrocytoma/ oligodendroglial tumours	IDH1
	Inducible T Cell co-stimulator	ICOS
	IgA immunoglobulins	IgA
	IgD immunoglobulins	IgD
	IgG immunoglobulins	IgG
	Subset of IgG Immunoglobulin	IgG4
	IgM immunoglobulins	IgM
	Differentiates adrenocortical tumours from sex cord tumours.	INHIBIN
	Stains B Cells of islets of Langerhans.	INSULIN



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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 - 124
	Mantle zones / plasma cells	Kappa
	Proliferation marker	KI-67
	Lambda light chains	Lambda
	Epidermal terminal differentiation/melanoma	Loricrin
	Pituitary adenoma	Luteinising Hormone
	Mast cells	MCTryp
	Melanocytes/melanomas	MEL A
	MSI panel for Lynch syndrome	MLH1
	Myeloid cells (leukaemia)	Myeloperoxidase
	Myelin in CNS/PNS	Myelin Basic Protein
	MSI panel for Lynch syndrome	MSH2, MSH6



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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 - 124
	Germinal centre B cells, plasma cells and activated t cells	MUM-1
	Rhabdomyosarcoma	MYOD1
	Rhabdomyosarcoma and Wilm's tumours	Myogenin
	Skeletal and cardiac muscle	Myoglobin
	Smooth muscle	Myosin
	Axonal marker	Neurofilament
	Germ cell tumours	Oct3/4
	HPV marker	P16
	Tumour suppressor gene	P53
	Beckwith-Wiedemann syndrome/hydatidiform mole	P57



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u>	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 - 124
	Dementia marker	P62
	Basal cell epithelium	P63
	Prostatic Intraepithelial neoplasia	PIN Cocktail
	Anaplastic large cell lymphomas	P80
	Loss of signal in parathyroid carcinoma	Parafibromin
	Chief cells of parathyroid	Parathyroid Hormone
	Parvovirus	Parvovirus
	B cells	PAX-5
	Cytotoxic T cells	Perforin
	Neurons	PGP9.5
	Progesterone – steroid hormone receptor	PGR
	Placenta	PLAP
	Programmed Death 1	PD1
	Programmed Death Ligand 1	PDL1
	MSI panel for Lynch syndrome	PMS2
	Phospholipase A2 Receptor	PLA2R
	Pancreas	Pancreatic Polypeptide
	Pituitary adenoma	Prolactin



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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 (cont'd)</u>	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 - 124
	Preferentially expressed antibody in melanoma	PRAME
	Prostatic adenocarcinoma	PSA
	Prostatic carcinoma and metastases	PSAP
	Prostatic Intraepithelial neoplasia	Racemace
	Renal cell carcinomas	RCC
	Erythrocytes and precursors	RET40f
	Proto-oncogene tyrosine-protein kinase ROS	Ros-1
	Nerves, glial cells, melanoma marker	S100
	Mitochondrial deficiency	SDHA
	Mitochondrial deficiency	SDHB
	Smooth muscle and tumours	SMA
	D cells islets of Langerhans	Somatostatin
	Melanoma subtypes	SOX 10
	Solitary fibrous tumours	Stat – 6
	Polyoma virus	SV40
	Synaptic and neuroendocrine	Synaptophysin
	Syphilis	Treponema.Pallidum



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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 (cont'd)</u>	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 - 124
	Interfollicular T cells	TCR beta
	T Cell Receptor Delta	TCR Delta
	Lymphoblastic leukaemia	TDT
	Thyroid follicular carcinoma	Thyroglobulin
	Pituitary adenoma	Thyroid Stimulating Hormone
	Renal cell carcinoma subset	Transcription Factor E3
	Pancreatic trypsin	Trypsin
	Thyroid/ thyroid tumours	TTF-1
	Recognises ubiquitinated cytoplasmic inclusion bodies	Ubiquitin(mono)
	Dementia marker	Ubiquitin(poly)
	Vascular smooth muscle/fibroblasts/endothelial cells/Langerhan's cells	Vimentin
	Varicella Zoster virus	VZV



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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 (cont'd)</u>	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 - 124
Fresh musclesamples	Glomeruli, proliferating mesothelial cells	WT1(poly)
	Tumour suppressor gene	WT1(mono)
	Immunocytochemistry for the identification of:	In house documented procedures & manufacturer's instructions using Ventana Benchmark XT and Ultra system automated ICC stainers HIIC122 - 124
	Assessment of inflammatory myopathies	HLA-ABC
	Assessment of inflammatory myopathies	HLA-DR
	Assessment of muscle fibre re-generation	Neo-MHC
	Assessment of Xp21 muscular dystrophies.	b-dyst
	To assess preservation of the plasmalemma in muscle.	b-spec
Assessment of complement deposition in muscle fibres and endothelial cells	C5B-9	
Diagnosis of limb girdle muscular dystrophy 1A, rippling muscle disease.	Caveolin	
Diagnosis of Xp21 muscular dystrophies	Dyst C & N	



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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 (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant:
Fresh muscle 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 - 124
	Diagnosis of Emery-Dreifuss muscular dystrophy	Emerin
	Diagnosis of limb girdle muscular dystrophies 2C-F	G-sarc
	Assessment of muscular dystrophies	Laminin Alpha 2
	Diagnosis of myofibrillar myopathies	Myotilin
	Assessment of myositis and muscular dystrophies	Utrophin
	Investigation of cytoskeletal proteins in inclusion body myositis	VCP
	Distribution and involvement of fibre types and their subtypes	Slow Muscle
	Distribution and involvement of fibre types and their subtypes.	Fast Myosin



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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Tissue samples</p>	<p><u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u></p> <p>Demonstration of gene sequences for the purpose of disease diagnosis</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>In-situ Hybridisation for:</p> <p>In House documented procedure & manufacturer's instructions using the following: Automated in situ hybridisation instruments (Ventana Benchmark XT and Ultra)</p> <p>EBVISH, HER2 dual ISH (Roche) / Chr17 Breast and Gastric, HR-HPV Probe, Kappa Probe, Lambda Probe</p> <p>Manufacturer's instructions and documented procedures HIMP085, HIMP086 and in the range</p>



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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Wet Fixed Preparations – Body fluids, urine, CSFs, aspirates, washings, brushings</p> <p>Air Dried Preparations Body fluids, CSFs</p> <p>FNA Wet Fixed Preparations Breast, Thyroid, Lymph nodes</p> <p>FNA Air Dried Preparations - Breast, Thyroid, Lymph nodes</p> <p>Prepared slides as above</p>	<p><u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u></p> <p><u>Cytopathology</u></p> <p>Detection of abnormal cells</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>In House documented procedure & manufacturer's instructions using the following:</p> <p>Processing and Staining and microscopy</p> <p>Manual Methods using documented procedures in the range: CYPL007-009 and stained using CYSL015-036.</p> <p>Documented procedure & manufacturer's instructions using the following equipment - Automated Gemini stainer (CYSL028) (CYSL017) Papanicolou</p> <p>Manual staining using Diff Quick</p> <p>Interpretive microscopy using Double Headed Olympus</p> <p>Binocular Microscope – used to QC special stains</p> <p>– used to QC IHC slides</p> <p>– used to screen slides for control tissue for IHC</p> <p>– used as a polarizing microscope HIML 124</p>
END		