


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2012	Northern Care Alliance NHS Foundation Trust	
	Issue No: 003 Issue date: 07 October 2021	
	Cellular Pathology Department Level 2 Turnberg Building Salford Royal Hospital Stott Lane Salford M6 8HD United Kingdom	Contact: Louise Bell – Quality Manager Tel: +44 (0)161 206 5016 E-Mail: louise.bell@srft.nhs.uk Website: www.srft.nhs.uk/paws/cellular-pathology/
Testing performed at the above address only		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity
Address Cellular Pathology Department Level 2 Turnberg Building Salford Royal Hospital Stott Lane Salford M6 8HD United Kingdom	Local contact David Muskett Tel: +44 (0) 161 206 5011 Email: david.muskett@srft.nhs.uk
	Routine Histopathology Special Stains Immunohistochemistry Immunofluorescence Neuropathology Diagnostic Cytology (Non-Gynae) Mortuary Services

Site activities performed away from the locations listed above:

Location details	Activities
On-site Mortuary and Body Store Salford Royal Hospital	Storage of bodies Viewing facilities Record keeping, body identification and audit trail



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Tissue: biopsy, excision, resection and post-mortem specimens	Examination of tissues to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Macroscopic examination and dissection Numerous organ specific SOPs: CP-MACRO.001 to 027 Tissue processing using Thermo Shandon and Sakura automated tissue processors. CP-HIST.001
Bone and calcified tissue		Decalcification CP-CUTUP-07 Embedding using Leica tissue embedding centres CP-HIST.002
Formalin Fixed Paraffin Embedded (FFPE) wax blocks of processed tissue.		Microtomy using Thermo and Leica microtomes CP-HIST.003
FFPE slides	Basophilic and eosinophilic tissue structures	Haematoxylin & eosin staining Automated: Leica Autostainer CP-CYTO.016
Frozen sections		Cryotomy using Thermo and Leica cryostats CP-EQUIP.016
FFPE slides	Morphological assessment and interpretation/diagnosis	Interpretive/diagnostic microscopy using Leica, Nikon & Olympus microscopes CP-EQUIP.008 Olympus, Leica, Nikon CP-MPROC.002
FFPE slides	<u>Tinctorial/Special morphological staining for the detection of:</u> Amyloid	In-house documented procedures using manual methods with the following stains: Sirius red CP-STAINS.030 Thioflavine T CP-STAINS.042 Congo red CP-STAINS.004



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	<u>Tinctorial/Special staining (cont'd)</u>	In-house documented procedures using manual methods with the following stains:
	Basement membranes	Methenamine Silver CP-STAINS.017
	Basophilic and eosinophilic tissue structures	Haematoxylin & eosin Manual: CP-STAINS.012
	Calcium deposits	Von Kossa CP-STAINS.034
	Connective tissue	HVG CP-STAINS.013 Masson trichrome CP-STAINS.016 PTAH CP-STAINS.027
	Copper, Hep B sAg	Orcein CP-STAINS.023
	Elastic fibres	Elastic Van Gieson CP-STAINS.044
	Ferric iron	Perls CP-STAINS.025
	Fibrin	MSB CP-STAINS.021
	Fungi, Pneumocystis	Grocott CP-STAINS.011
	Gram positive and negative bacteria	Gram CP-STAINS.009
	Helicobacter pylori	Giemsa CP-STAINS.007
	Lipids	Oil red O CP-STAINS.022
	Lipofuscin	Schmorl CP-STAINS.029
	M. leprae	Wade Fite CP-STAINS.035
	M. tuberculosis	Ziehl Neelsen CP-STAINS.038
	Mast cells	Toluidine blue CP-STAINS.032
	Melanin	Masson Fontana CP-STAINS.015



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	<u>Tinctorial/Special staining (cont'd)</u>	In-house documented procedures using manual methods with the following stains:
	Mucins and carbohydrates	Alcian blue CP-STAINS.001 Hale's colloidal iron CP-STAINS.0 ABPAS CP-STAINS.002 PAS CP-STAINS.024 PASD CP-STAINS.006
	Myelin in CNS	Luxol fast blue CP-STAINS.014
	Myelin in PNS	Solochrome cyanin CP-STAINS.031
	Neuroendocrine granules	Grimelius CP-STAINS.010
	Neurofibrillary plaques and tangles	Bielschowsky CP-STAINS.040
	Nissl substance	Cresyl fast violet CP-STAINS.003
	Paneth cells, viral inclusions	Phloxine tartrazine CP-STAINS.026
	Pick bodies, neurofibrillary tangles, Lewy bodies	Gallya's CP-STAINS.039
	Reticulin fibres	Gordon & Sweet's reticulin CP-STAINS.008
	Spirochaetes	Warthin Starry CP-STAINS.037
Muscle biopsy specimens	Basophilic and eosinophilic tissue structures	Haematoxylin & Eosin CP-MUSC.010
Muscle biopsy specimens	Fibrosis, rods, mitochondria	Gomori's Trichrome CP-MUSC.011
Muscle biopsy specimens	Lipid	Sudan Black CP-MUSC.016
Muscle biopsy specimens	Glycogen	PAS+/-D CP-MUSC.013



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
	<u>Immunohistochemistry examination activities to detect the following:</u>	Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025
FFPE slides	Amyloid A protein	Amyloid A
	Muscle, Schwann & glial cells	$\alpha\beta$ -Crystallin
	Cells of the anterior pituitary and in neurons in brain	Adrenocorticotrophic hormone
	Acidic and basic cytokeratin; glandular epithelium of prostate, skin, breast, thyroid. Squamous epithelium, columnar epithelium of skin tonsil, cervix, stomach, intestine	AE1/AE3 cytokeratins
	Germ cell tumours, foetal liver cells	α -Fetoprotein
	Prostate adenocarcinoma, kidney tubules	Methyl acyl CoA racemase
	Amyloid β /A4, pre A4 in damaged neurones, senile plaques in Alzheimer's disease	Alzheimer precursor protein
	Neurones & glial cells, Lewy bodies	α -Synuclein
	Senile plaques in Alzheimer's disease	β -Amyloid



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
	<u>Immunohistochemistry (cont'd)</u>	Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025
FFPE slides (cont'd)	Immature enteric ganglion and diffuse large cell lymphoma	bcl-2
	Germinal centre marker Marker for follicular lymphoma	bcl-6
	Desmoplastic small round cell carcinoma	Ber-EP4
	C1Q compliment protein	C1q complement
	C3 compliment protein	C3 complement
	C4d complement protein	C4d complement
	Peripheral nerves (ganglion cells and axons) and macrophages in the appendix, cortical epithelial cells, mesothelioma	Calretinin
	Simple and glandular epithelium. Classifying malignant cells of epithelial origin (carcinomas). Distinguishing carcinoma from malignant tumour of non-epithelial origin	CAM5.2 cytokeratin
	Langerhans cells	CD1a
	T cells	CD3
	T cell helper/inducer subset	CD4



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025
	T cells and a small number of B cells	CD5
	T cells, NK cells	CD7
	Cytotoxic / suppressor T cells	CD8
	immature B cells, fibroblasts. Myoepithelium	CD10
	Human myelomonocytic antigen. Granulocytes and monocytes	CD15
	B cells	CD20
	Follicular dendritic cells, mature B cells	CD21
	B cell subset, some monocytes & dendritic cells	CD23
	Anaplastic large-cell lymphoma, Hodgkin's Reed-Sternberg cells	CD30
	Endothelial cells, platelets, monocytes, some B cells	CD31
	Capillary endothelial cells	CD34
	T lymphocytes, monocytes, granulocytes, and some B lymphocytes	CD43
	ICAM-1	CD54



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025
	Neuroendocrine cells and neurones	CD56
	Monocytes, macrophages, neutrophils	CD68
	Neuroendocrine cells and neurones	CD79
	T lymphocytes, granulosa cells of the ovary, CNS ependymal cells, Leydig cells & Sertoli cells in testes.	CD99
	Mast cells, melanocytes, intestinal Cajal cells	CD117
	Plasma cells, late B cells, squamous epithelium	CD138
	Normal enzyme that is oncogenic in anaplastic large-cell lymphoma, lung adenocarcinoma	CD246
	Epithelial cells in intestine	CDX2
	Epithelial cells, macrophages identify adenocarcinomas of the digestive tract, to distinguish between malignant mesothelioma and peripheral pulmonary adenocarcinoma, to distinguish between endocervical and endometrioid endometrial adenocarcinoma, and to distinguish hepatocellular carcinoma from cholangiocarcinoma and metastatic liver adenocarcinoma	Carcinoembryonic antigen



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY TISSUE (cont'd)</p> <p>FFPE slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Immunohistochemistry (cont'd)</u></p> <p>Neural tissue & endocrine cells. pituitary adenomas, parathyroid and pancreatic islet cell tumours medullary thyroid carcinoma, and carcinoid tumours of e.g., respiratory and gastrointestinal tract.</p> <p>Human cytomegalovirus in infected cells</p> <p>Basement membrane, micro-invasion</p> <p>Cells in G1 phase of the cell cycle. Differentiation of mantle cell lymphoma from other B-cell lymphomas</p> <p>Simple, complex and transitional epithelia including biliary, pancreatic ducts, lung alveoli and endometrium. Identification of adenocarcinomas of the lung, breast and endometrium, thyroid gland, ovary, transitional cell carcinomas and chromophobe renal cell carcinoma.</p> <p>Stratified squamous and non-squamous epithelium. Identification of basal and squamous cell carcinomas. Distinguishing stratified and simple epithelial cells</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025</p> <p>Chromogranin</p> <p>Cytomegalovirus</p> <p>Collagen IV</p> <p>Cyclin D1</p> <p>Cytokeratin7</p> <p>Cytokeratin 14</p>



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025
	Basal keratinocytes of stratified epithelium, foetal epidermis and foetal nail. Differentiate primary from metastatic skin cancer. Marker for hair follicle and breast epithelium.	Cytokeratin 15
	Gastric small and large bowel epithelium, urothelium, Merkel cells. Characterization of carcinoma originating from urothelium, intestinal epithelium and Merkel cells	Cytokeratin 20
	Cytokeratin in human epidermis and non-keratinising epithelium. Distinguishes low differentiated squamous cell carcinoma and adenocarcinoma.	Cytokeratin 5/6
	HMW cytokeratin's; epithelium in skin, breast, lung, kidney, pancreas, tonsil. Identifying normal squamous, ductal and other complex epithelia.	Cytokeratin 34βE12
	Smooth, cardiac and striated muscle cells, more abundant in parenchymal smooth muscle than vascular. Reactive mesothelial cells	Desmin
	Gastric epithelium, interstitial cells of Cajal, breast epithelium, epithelium of salivary glands, stomach, prostate, liver, pancreas, testis, gallbladder, GIST, pancreatic and oesophageal neoplasms	DOG1



9902
Accredited to
ISO 15189:2012

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025
	Glandular epithelium, adenocarcinomas of lung, GI tract and ovary.	E-cadherin
	Marker of cancers of breast, brain, bladder, lung, gastric, head and neck, oesophagus, cervix, ovary, endometrium and squamous cell carcinoma	EGFR
	Distal tubules of normal kidney, DSRCT (desmoplastic small round cell carcinoma). Present in all epithelial cells except superficial layers of squamous epithelium, hepatocytes and parietal cells	Epithelial membrane antigen
	Platelets, megakaryocytes and fibroblast-like mesenchymal or histiocytic cells in the placenta, uterus, prostate, monocytes and macrophages and dermal dendritic cells.	Factor XIIIa
	Fibrinogen glycoprotein	Fibrinogen
	FoxP1 protein. Identification and sub-classification of diffuse large B-cell lymphoma	FOXP1
	Mesothelial cells. Marker of thyroid papillary and follicular carcinoma	HBME-1
	Classification of pituitary tumours and the study of pituitary disease	Follicle Stimulating Hormone



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY TISSUE (cont'd)</p> <p>FFPE slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Immunohistochemistry (cont'd)</u></p> <p>Marker of mammary carcinoma and carcinoma of salivary and sweat glands.</p> <p>Chondrocytes, Kupffer cells, Schwann cells, retinal Muller cells, astrocytes, ependymal cells, oligodendrocytes. Peripheral nerve sheath tumours, mixed tumours of salivary and sweat glands and some chondroid tumours.</p> <p>GH-producing cells, Acidophilic cells of the anterior lobe of the pituitary gland. Hepatocellular carcinoma and various benign and malignant cutaneous lesions.</p> <p>Trophoblastic tumours. Prognostic factor in ER positive breast cancers</p> <p>Differentiation of complete and partial molar pregnancies from choriocarcinoma</p> <p>Immature melanosomes. Normal breast and sweat gland epithelium. Malignant melanoma, Angiomyolipomas, Clear Cell lung tumours and Lymphangioliomyomatosis.</p> <p>Breast glandular epithelium. normal and neoplastic mammary development</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025</p> <p>GCDPF15</p> <p>Glial fibrillary acidic protein</p> <p>Growth hormone</p> <p>HCG α subunit</p> <p>HCG β subunit</p> <p>HMB-45</p> <p>Human milk flat globulin 2</p>



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025
	HSV type I specific antigens	Herpes simplex virus
	HHV8 associated Kaposi sarcoma, primary effusion lymphoma, multicentric Castleman disease	Human herpes virus 8
	Astrocytomas, oligoastrocytomas and oligodendrogliomas.	Isocitrate dehydrogenase
	Evaluation of glomerular disease, detection of plasma cells and related lymphoid cells containing IgA; classification of B-cell neoplasia, distinguishing neoplastic monoclonal proliferation from reactive hyperplasia of plasma cells	IgA, IgG, IgM
	Identification of ovarian granulosa cell tumours and Sertoli cell tumours	Inhibin
	Lymphoma marker	Kappa light chains
	Proliferation marker	Ki67
	Lymphoma marker	Lambda light chains
	Marker of cells of a haematopoietic origin except erythrocytes; B and T cells, granulocytes, monocytes, macrophages.	Leucocyte common antigen
	Marker of Pituitary Tumours	Luteinising Hormone
	Marker of neuronal differentiation and detection of ganglion cells	Microtubule associated protein



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025
	Mast cells marker	Mast cell Tryptase
	Melanocytes; melanomas, adrenocortical carcinomas and angiomyolipomas	Melan-A
	Rhabdomyosarcoma marker	Myogenin
	Myeloid cells	Myeloperoxidase
	Class VI intermediate filament protein Marker of Glioblastoma multiformes and primary and metastatic melanomas	Nestin
	Identification of neuronal cell types including cerebellum, cerebral cortex, hippocampus, thalamus, spinal cord, dorsal root ganglia, sympathetic chain ganglia and enteric ganglia	NeuN (FOX3)
	Neurons of the central and peripheral nervous system,	Neurofilament protein
	Normal and neoplastic cells of neuronal and neuroendocrine origin	Neurone specific enolase
	Embryonic stem cells and germ cells	OCT3/4
	p53 oncogene associated with malignancy	p53



9902
Accredited to
ISO 15189:2012

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025
	Marker of molar pregnancy	p57
	Neurofibrillary tangles and in Lewy bodies. Rosenthal fibres of pilocytic astrocytoma	p62
	Basal or progenitor layers of epithelial tissues. Lung squamous cell carcinomas and differentiation of lung adenocarcinomas. Identifies breast/prostate tumours	p63
	Marker of organogenesis in the thyroid, kidney and Mullerian system. B lymphocytes, kidney, liver, RCC and spleen marker.	PAX-8
	Marker of pituitary adenocarcinomas, thyroid carcinomas, pancreatic islet cell tumours, paragangliomas, neuroblastomas, carcinoid tumours and atrial myxomas	PGP 9.5
	Marker of PLAP expressing cells. Ovarian, testicular and extra gonadal germ cell tumours. Skeletal and smooth muscle and other tumours	Placental alkaline phosphatase
	Pituitary hormone	Prolactin
	Marker of normal/malignant prostate	Prostate specific antigen



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025
	Marker of normal/malignant prostate	Prostate specific acid phosphatase
	Differentiation of primary or metastatic RCC from non-renal tumours	Renal cell carcinoma
	Marker of neural tissue / lesions and melanoma. Identifying Schwannomas, ependymomas, astroglomas, and almost all benign and malignant melanomas and metastases	S100
	Smooth muscle, myofibroblasts, myoepithelial cells, leiomyomas, leiomas, pleomorphic adenoma, myoepithelial cells in breast lesions	SM Actin
	Simian virus 40 tumour marker	SV40 T antigen
	Normal neuroendocrine cells and neuroendocrine neoplasms. Dense, granular cytoplasmic staining	Synaptophysin
	Tangles in Alzheimer's disease	Tau
	T cell receptor (TCR)	T cell receptor β
	TAR DNA/RNA binding protein in pancreas, placenta, lung, genital tract, spleen, hippocampus, neocortex, spinal cord	TDP-43



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025
	Follicular epithelial cells of thyroid, colloid	Thyroglobulin
	Syphilis marker	Treponema pallidum
	Pituitary hormone	Thyroid stimulating hormone
	Marker of normal thyroid/lung tumours	Thyroid transcription factor
	Glandular epithelial cells of endometrium, Lewy bodies in human brain with Parkinson's, neurofibrillary tangles in Alzheimer's, Mallory bodies in alcoholic liver disease	Ubiquitin
	Mesenchymal tumours	Vimentin
	Wilms tumour/mesothelioma	WT1 gene product
Muscle biopsy specimens	Normal/abnormal muscle fibre elements	Dystrophins 1, 2 & 3 Sarcoglycans α , β , γ , & δ Laminins B1 & B2 Emerin Dysferlin Utrophin



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY TISSUE (cont'd)</p> <p>Muscle biopsy specimens (cont'd)</p> <p>Frozen tissue specimens</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Immunohistochemistry (cont'd)</u></p> <p>Normal/abnormal muscle fibre elements</p> <p><u>Immunofluorescence (IF) for identification/demonstration of:</u></p> <p>IgA</p> <p>IgG</p> <p>IgM</p> <p>Complement C3</p> <p>Fibrinogen</p> <p>Kappa light chains</p> <p>Lambda light chains</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Automated qualitative immunohistochemistry using the Roche Ventana Benchmark Ultra and the following monoclonal, polyclonal and cocktail antibodies: SOP: CP-IMM.025</p> <p>Spectrin</p> <p>Merosin</p> <p>Troponin</p> <p>Myotilin</p> <p>Human leucocyte antigen -1</p> <p>Complement C5-9</p> <p>Qualitative immunofluorescence using Roche Ventana Benchmark Ultra SOPs: CP-IMM.003, CP-IMM.010</p>



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Tissue (Breast primary)	HER2 protein	Semiquantitative immunohistochemistry using Roche Ventana Benchmark Ultra HER2 protein CP-IMM.008
	Oestrogen receptor	Summary of Breast Receptor Demonstration CP-IMM.018
	Progesterone receptor	Summary of Breast Receptor Demonstration CP-IMM.018
Tissue (Breast primary)	HER2 protein	Semiquantitative chromogenic in situ hybridisation (DDISH) using Roche Ventana Benchmark Ultra CP-IMM.030
Muscle	<u>Muscle Histopathology</u>	Muscle Biopsy Handling and preparation of frozen sections CP-MUSC.001 and CP-HIST.017
		Tinctorial staining using the following:
Slides prepared from fresh / frozen tissue or formalin fixed, paraffin embedded (FFPE) Muscle biopsy tissue specimens	Basophilic and eosinophilic tissue structures	Haematoxylin & Eosin CP-MUSC.010
Slides prepared from fresh / frozen tissue or formalin fixed, paraffin embedded (FFPE) Muscle biopsy specimens	Fibrosis, rods, mitochondria	Gomori's Trichrome CP-MUSC.011
Slides prepared from fresh / frozen tissue Muscle biopsy specimens	Lipid	Sudan Black CP-MUSC.016



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY TISSUE (cont'd)</p> <p>Slides prepared from fresh / frozen tissue or formalin fixed, paraffin embedded (FFPE) Muscle biopsy specimens</p> <p>Muscle biopsy specimens</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Muscle Histopathology (cont'd)</u></p> <p>Glycogen</p> <p>Cytochrome oxidase activity</p> <p>Succinate dehydrogenase activity</p> <p>NADH tetrazolium reductase activity</p> <p>Adenosine triphosphatase activity</p> <p>Myophosphorylase activity</p> <p>Acid phosphatase activity</p> <p>Phosphofructokinase</p> <p>Myoadenylate deaminase</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Tinctorial staining using the following:</p> <p>PAS+/-D CP-MUSC.013</p> <p>Enzyme histochemistry using the following SOPs:</p> <p>CP-MUSC.003</p> <p>CP-MUSC.004</p> <p>CP-MUSC.005</p> <p>CP-MUSC.009</p> <p>CP-MUSC.007</p> <p>CP-MUSC.006</p> <p>CP-MUSC.008</p> <p>CP-MUSC.010</p>



9902
Accredited to
ISO 15189:2012

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

Northern Care Alliance NHS Foundation Trust

Issue No: 003 Issue date: 07 October 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS</p> <p>Fine needle aspirates –Breast, sputum, urine, CSF, oesophageal washings and brushings, Conventional Bronchial Brushings, Serous fluids, Bronchial washings and Bronchial Alveolar lavage samples.</p> <p>Slides prepared in-house from sample types listed above</p> <p>Slides prepared in-house from sample types listed above</p> <p>Formalin and Glutaraldehyde fixed tissue samples</p> <p>Resin semi-thin and ultra-thin sections</p> <p>Tissue samples prepared as above</p>	<p><u>Diagnostic Cytopathology (Non-Gynae) examination activities for the purposes of clinical diagnosis</u></p> <p>Preparation and examination of cellular material to identify or exclude morphological and cytological abnormalities</p> <p>Morphological assessment and interpretation/diagnosis</p> <p>Identification of morphological and cytological abnormalities</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Cytopreparation and staining using: Hologic T 2000 Processor; Cytospin 4 Centrifuge; Rotina Centrifuge; Leica Autostainer. CP-CYTO.015; CP-CYTO.016</p> <p>Interpretive/diagnostic microscopy using Leica, Nikon & Olympus microscopes CP-EQUIP.008 Olympus, Leica, Nikon CP-MPROC.002</p> <p>Electron microscopy using Hitachi H7500 transmission electron microscope In-house procedures in conjunction with manufacturer's instructions</p> <p>Manual Resin processing CP-EM.011</p> <p>Ultramicrotomy using Reichert-Jung Ultracut-E</p> <p>Lead citrate and toluidine blue methods CP-EM.004</p> <p>EM Photographic procedures CP-EM.005</p>
END		