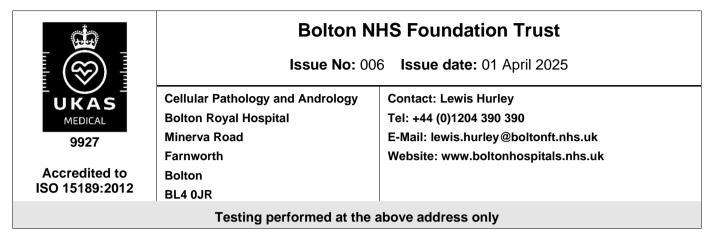
Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



Locations covered by the organisation and their relevant activities

Site activities performed away from the laboratory:

Location details	Activity
Mortuary Bolton Royal Hospital Minerva Road Farnworth Bolton BL4 0JR United Kingdom	Mortuary Services (body receipt, storage and release)



Schedule of Accreditation issued by ited Kingdom Accreditation Service

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

Bolton NHS Foundation Trust

Issue No: 006 Issue date: 01 April 2025

Accredited to ISO 15189:2012

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	Histopathological examination activities for the purposes of clinical diagnosis	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	Specimen dissection SOP:HY-SOP-PATH-100, HY-SOP- CU-0013, AFOS Downdraft benches SOP: HY-SW-CU-008
		Tissue processing using Leica Tissue processors SOPs;HY-PROC-SW-1
Femoral head, bone reamings		Decalcification Pathvision Faxitron SOP: HY-SOP-CU-0021 HY-PROC-SOP-1
		Leica Tissue Embedding centres SOP: HY-SOP-MLAB-0010
Formalin Fixed Paraffin Embedded (FFPE) wax blocks of processed tissue.		Leica/Epredia Tissue Sectioning Microtomes SOP: HY-SOP-MLAB-0011
Frozen sections: Parathyroid and other excisional/resection tissue removed from body		Cryotomy Intra-operative Frozen sections Leica CM1850 Cryostat SOP: HY-SOP-CU-0010
FFPE slides		Interpretive/diagnostic microscopy SOP: HY-MAIN-SW-7, HY-MAIN- SOP-4, HY-MLAB-DOC-20, HY- MLAB-DOC-28, HM-ESD-11

9927

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

Bolton NHS Foundation Trust

Issue No: 006 Issue date: 01 April 2025

Accredited to ISO 15189:2012

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd) Routine morphological staining for the detection of:	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE (Formalin fixed paraffin embedded) slides	Identification of nuclei, cell cytoplasm and most connective tissues in cells and tissues	Sakura Tissue Tek DRS 2000 stainer Haematoxylin & Eosin stain Manual and Automated SOPs: HY-SOP-MLAB-0003; HY- SOP-SS-0029
FFPE (Formalin fixed paraffin embedded) slides	Special stains for the detection of:	Documented in-house procedures for manual special stains
	Acid mucopolysaccharides	Alcian Blue, Ph 2.5, SOP: HY-SOP-SS-0001
	Acid and Neutral Mucopolysaccharides	Alcian Blue/PAS SOP: HY-SOP-SS-0002
	Acid and Neutral Mucopolysaccharides, no glycogen	Alcia Blue/PAS Diastase SOP: HY-SOP-SS-0003
	Differentiation of glycogen from mucin	PAS + Diastase digestion SOP: HY-SOP-SS-0005
	Neural Mucins/glycogen	PAS SOP: HY-SOP-SS-0012
	Elastic fibres, muscle, collagen	Millers elastic stain SOP: HY-SOP-SS-0007
	Amyloid	Congo Red SOP: HY-SOP-SS-0008
	Fungal hyphae / yeast bodies	Grocott-Gomori Methanamine Silver SOP: HY-SOP-SS-0009
	Pneumocysts	Grocott Modified for Pneumocystis, SOP: HY-SOP-SS-0010
	H. pylori, connective tissue	Giemsa stain, Gurr's Improved SOP: HY-SOP-SS-0013

9927

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

Bolton NHS Foundation Trust

Issue No: 006 Issue date: 01 April 2025

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE (Formalin fixed paraffin embedded) slides	Special stains for the detection of: (cont'd)	Documented in-house procedures for manual special stains
	Differentiation of Gram positive and Gram negative organisms	Gram stain SOP: HY-SOP-SS-0014
	Melanin, Argentaffin, Chromaffin and some Lipofuscins,	Masson Fontana SOP: HY-SOP-SS-0015
	Copper Associated Protein	Shikata's Orcein SOP: HY-SOP-SS-0019
	Haemosiderin	Perl's Prussian Blue SOP: HY-SOP-SS-0021
	Reticular fibres	Gordon & Sweet's Reticulin SOP: HY-SOP-SS-0022
	Mast cells	Toluidine Blue SOP: HY-SOP-SS-0023
	M. leprae	Ziehl Nielson modified SOP: HY-SOP-SS-0027
	Tubercle bacilli	Ziehl Nielson SOP: HY-SOP-SS-0026

9927

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

Bolton NHS Foundation Trust

Issue No: 006 Issue date: 01 April 2025

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination</u> <u>activities for the purposes of clinical</u> <u>diagnosis</u> (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE (Formalin fixed paraffin embedded) slides	Immunocytochemistry examination activities to detect the following:	Roche Ventana Benchmark Ultra SOP: HY-SOP-ICC-0009
	Glandular and stratified squamous epithelium	AE1/AE3
	Embryonic Cells in normal tissue and germ tumours	AFP, Alpha -1-Fetoprotein
	Follicular and diffused large cell lymphomas from reactive lymph nodes	bcl-2 Oncoprotein
	Reed Sternberg cells in Hodgkin's lymphoma, anaplastic large cell lymphoma and plasma cells	Ber H2, CD30
	Epithelial Cells of the Colon	Ber EP4
	Classification of mesothelial cells and malignant mesothelioma of the epithelial type	Calretinin
	Carcinomas from malignant tumours of non-epithelial origin	CAM 5.2
	All germinal centre cells – tonsil Renal cell carcinoma	CD10 CALLA
	KIT protein in gastro-intestinal stromal tumours	CD117, c-KIT, GIST tumour marker,
	CD138, B cell differentiation	CD138
	Normal and neoplastic T cells from thymocytes to mature T cells	CD3, T Cell
	Neural / neuroendocrine tissue and natural killer cells	CD56, NCAM, Neural Adhesion
	Macrophages	CD68, Macrophage

	(
	UKA	S
2	MEDICA 9927	L

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

Bolton NHS Foundation Trust

Issue No: 006 Issue date: 01 April 2025

Accredited to ISO 15189:2012

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	Immunocytochemistry examination activities to detect the following (cont'd):	Roche Ventana Benchmark Ultra SOP: HY-SOP-ICC-0009
	B cells all stages	CD79a, B Cell
	Loss of differentiation in colorectal cancers	CDX2
	Adenocarcinoma	CEA, Carcinoembryonic Antigen
	Neuroendocrine cells	Chromogranin
	Adenocarcinomas of breast, lung, endometrium, ovary, thyroid and carcinomas of bladder and renal cell	CK7, Cytokeratin 7
	Columnar cell epithelium	CK20, Cytokeratin 20
	Myoepithelial cells of the prostate / breast. Squamous cell carcinoma	CK 5/6, Cytolkeratin 5/6
	Cytomegalovirus infected cells	Cytomegalovirus, CMEG
	Smooth and striated muscle tumours	Desmin
	Adenocarcinoma from mesothelioma and ductal vs lobular cancer of the breast	E-Cadherin
	Variety of normal and neoplastic epithelia	EMA, Epithelial Membrane Antigen
	Breast carcinoma and urothelial carcinoma	GATA3
	HER-2 expressing cells in breast cancer	HER-2
	Melanoma cells	HMB45

MEDICAL 9927 Accredited to ISO 15189:2012	Bolton NHS Foundation Trust Issue No: 006 Issue date: 01 April 2025			
	Testing performed at main address only			
Materials/Products test	ed	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	
HUMAN BODY TISSUE (cc	ont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:	
FFPE slides (cont'd)		Immunocytochemistry examination activities to detect the following (cont'd):	Roche Ventana Benchmark Ultra SOP: HY-SOP-ICC-0009	
		Endothelial cells. Benign and malignant vascular disorders	JC70A or CD31	
		B cells	L26, B Cell, CD20	
		All Leucocytes	LCA, CD45	
		Melanomas and angiomyolipomas	MART-1 (Melan A)	
		Proliferating cells	MIB-1 Proliferating Cell Marker	
		Oestrogen receptors breast carcinoma	Oestrogen Receptor (OR)	
		Prostatic carcinoma	P504S, Clone 13H4	
		Malignant change in cervical epithelium, HPV	P16	
		Cell proliferation	P63	
		Ovarian carcinoma, renal cell carcinoma and thyroid carcinoma	PAX8	
		P40 protein	P40	
		Wild type mutant p53	P53	
		Breast carcinoma	Progesterone Receptor (PR)	
		Vascular and leucocyte differentiation	QBend10 (CD34)	
		Malignant melanocytic tumours of the skin and metastases of human malignant melanomas	S100	

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

9927	

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

Bolton NHS Foundation Trust

Issue No: 006 Issue date: 01 April 2025

Accredited to ISO 15189:2012

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FFPE slides (cont'd)	Immunocytochemistry examination activities to detect the following (cont'd):	Roche Ventana Benchmark Ultra SOP: HY-SOP-ICC-0009
	Smooth muscle cells, myofibroblasts and myoepithelial cells	Smooth Muscle Actin (SMA)
	Follicular epithelial cells of thyroid, Type II pneumocytes ie; smooth muscle, endothelium, lymphocytes	Thyroid Transcription Factor (TTF1)
	Cells of mesenchymal origin	Vimentin
	Mesenchymal cells, Wilms tumour, Serous ovarian adenocarcinoma	WT-1
Slides prepared as above	Morphological assessments and interpretation/diagnosis	Leica DM4B/DMRB/DM2000, Olympus BX40/41 and Nikon Eclipse 80C microscopes SOPs: HY-SOP-PATH-0001, HY- MAIN-SOP-4, HY-MLAB-DOC-20, HY-MLAB-DOC-28, HM-ESD-11, HY-MAIN-SW-7, HY-MAIN-SW-6

	Schedule of Ac issued b United Kingdom Accr 2 Pine Trees, Chertsey Lane, Staines		y editation Service		
9927 Accredited to ISO 15189:2012			Bolton NHS Foundation Trust Issue No: 006 Issue date: 01 April 2025		
Testing performed at main address only					
Materials/Products test	ed	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used		
HUMAN BODY FLUIDS		<u>Cytology (Non-Gynae) examination</u> activities for the purposes of clinical diagnosis	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:		
Fine needle aspirates – Bronchial Brushings, Serous fluids, Sputum, Bronchial washings, Urine		Preparation and examination of cellular material to identify or exclude morphological and cytological abnormalities	In-house procedures in conjunction with manufacturer's instructions using: Hettich Rotina 380 centrifuge SOP: CY-SW-1 Thermo Shandon Cytospin SOP: NC-SOP-STAIN-0003 Class I Biological Safety cabinet SOP: CY-NG-SW-3 Light microscopes SOPs: HY-MAIN-SW-6, HY-MAIN- SW-7 Non-gynae specimen preparation, examination and reporting SOPs: NC-SOP-LAB-0007; CY-NG- SOP-2; CY-NG-SOP-3; NC-SOP- LAB-0012		
Serous Fluids including Plea fluids Sputum and Bronchial Was			NC-SOP-LAB-0017 – Specimen Preparation – Aspirated Fluid. NC-SOP-LAB-0013 - Specimen		
Sputum and Bioneniar Was	migs		Preparation - Sputum, NC-SOP-LAB-0007 – Specimen Preparation – Bronchial Washings		
Urine			NC-SOP-LAB-0015 - Specimen Preparation - Urines		



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

Bolton NHS Foundation Trust

Issue No: 006 Issue date: 01 April 2025

Accredited to ISO 15189:2012

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<u>Cytology (Non-Gynae) examination</u> activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
FNAs and Brushings	Demonstration of Cells (nuclei and cytoplasm) and micro-organisms	CY-NG-SOP-3 Specimen Preparation FNA, Brushings and Direct Smears
Non-gynae Cytology Preparations and Staining	Cellular morphological abnormalities	Papanicolaou stain using the Gemini AS stainer SOP: CY-SW-2 Preparing an Agar Block NC-SOP- LAB-0001
Non-gynae cytology preparations on glass slides	Malignant Cells	Giemsa Staining (Hema-Gurr) SOP: NC-SOP-STAIN-0011
Slides prepared as above	Morphological assessments and interpretation/diagnosis	Using light microscopy- Leica DM4B/DMRB/DM2000, Olympus BX40/41 and Nikon Eclipse 80C microscopes SOPs: HY-MAIN-SW-6, HY-MAIN- SOP-4, HY-MAIN-SW-7

	Schedule of Accreditation issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK Bolton NHS Foundation Trust Issue No: 006 Issue date: 01 April 2025		
9927 Accredited to ISO 15189:2012			
	Testing performed at main address on	ly	
Materials/Products test	ed Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	
HUMAN BODY FLUIDS	Andrological examination activities for the purposes of clinical diagnosis	<u>s</u>	
Semen	Post vasectomy:	Based on 2016 Laboratory guidelines for post vasectomy semen analysis: Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons)	
	Detection of sperm	Manual method using large volume chambers/manual microscopy and documented in-house procedure: Post Vasectomy Semen Analysis SOP: CY-AND-SOP -1	
	1-hour Post Vasectomy: Detection of sperm Sperm concentration Sperm motility	Manual method using large volume chambers/manual microscopy and documented in-house procedure: 1hour Post Vasectomy Semen Analysis CY-AND-SOP-2	
Semen	Fertility testing:	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method / documented in-house procedure SOPs: NC-SOP- AND-0002, 0004, 0005, 0006	

Volume/weight

Colorimetric strips

Stained slides (Papanicolau) using the Gemini AS stainer and microscopy (Bright field) SOP: CY-SW-2

Improved Neubauer counting chambers and Microscopy (Phase contrast)

Microscopy (Phase contrast)

Stained slide (Eosin/Nigrosin dye exclusion test) microscopy (Bright field)

END

Sperm morphology including TZI

Sperm concentration

Sperm motility

Sperm vitality

Volume

scoring

pН