


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2022	Blackpool Teaching Hospitals NHS Foundation Trust	
	Issue No: 012 Issue date: 24 November 2025	
	Department of Cellular Pathology Blackpool Teaching Hospitals NHS Foundation Trust Victoria Hospital Whinney Heys Road Blackpool FY3 8NR	Contact: Dr Darek Golka Tel: +44 (0) 1253 953 151 Tel: +44 (0) 1253 956 949 E-Mail: dr.golka@nhs.net Website: http://www.bfwh.nhs.uk
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Supporting activities performed at the location listed above:

Location details	Activity
On-site Mortuary and Body Store Department of Cellular Pathology (as above)	Mortuary services (incl. body receipt, storage & release) for Coroner's deceased and hospital consented cases. Record keeping (body identification and audit trail)



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY TISSUE AND FLUIDS</p> <p>Fixed, fresh and frozen tissue samples: excisional and incisional biopsies and surgical resection and post mortem specimens</p>	<p><u>Histopathological examination of tissues for the purpose of diagnosis</u></p> <p>Routine histopathology examination activities. Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of clinical diagnoses.</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p><u>Macroanalysis, Specimen dissection</u> using: CPPC 006,007,008,011</p> <p><u>Decalcification</u> using: CPPC 032</p> <p><u>Tissue processing</u> using: CPPC 035, 052 using the following tissue processors Thermo Excelsior Leica Peloris</p> <p><u>Embedding</u> using: CPPR 003 and Thermo Embedding Centre</p> <p><u>Frozen sections</u> using: CPPC 0023 and Leica Microsystems CM1950 Cryostat</p> <p><u>Microtomy and slide production</u> using: CPPR 004 and Leica RM2235 Microtomes</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination of tissues for the purpose of diagnosis</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE tissue samples and cell blocks	All tissue components: Nuclei Cytoplasm Muscle fibres Red blood cells Fibrin	Automated H and E staining using Leica HistoCore Spectra ST stainer and Spectra CV coverslipper CPPR 005
FFPE tissue samples and cell blocks	All tissue components: Nuclei Cytoplasm Muscle fibres Red blood cells Fibrin	<u>Manual H&E staining</u> using: CPPR 005



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination of tissues for the purpose of diagnosis</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE tissue samples and cell blocks	Special staining for identification of:	<u>Special staining manual techniques:</u> using CPPS 005
	Acid mucins	Alcian blue
	Acid mucins and neutral mucins	Alcian Blue Periodic Acid Schiff (AB PAS) +/- Diastase
	Amyloid	Congo Red
	Elastin and connective tissue	EVG - Miller's Elastic Van Gieson
	Differentiate between gram positive and negative bacteria	Gram
	Fungi	Grocott's Hexamine Silver
	Fibrin	Martius Scarlet Blue (MSB)
	Connective tissue	Masson Trichrome
	Melanin	Masson – Fontana
	Tissue carbohydrates e.g. glycogen, mucins and fungal cell walls.	PAS +/- diastase
	Demonstration of iron	Perls'



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FFPE tissue samples and cell blocks (cont'd)	Special staining for identification of: (cont'd)	Special staining manual techniques (cont'd):
	Reticulin	Reticulin - silver impregnation technique
	Copper associated protein / HepBsAg	Shikata's Orcein
	Acid fast Bacilli	Ziehl Neelsen (ZN)
FFPE tissue sample and cell blocks	Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis	Automated Immunohistochemical staining – Documented in house methods CPPI 001, CPPI 008, CPPI 010, CPPI 011, CPPI 013, CPPST 014, CPPST 016 and Dako Link 48 Immunostainer and En Vision FLEX (High pH) kit
	Non-small cell lung cancer tissue	PDL-1
	Normal smooth, skeletal and cardiac muscle	Desmin



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FFPE tissue samples and cell blocks	Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis	<u>Automated</u> Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit
	Epithelial marker	AE1/AE3
	Epithelioid Mesothelioma	BAP-1
	Cytokeratins 1,5,10, and 14.	High Molecular weight CK34BE12
	B cells in mantle zone and interfollicular T cells.	BCL-2
	Epithelial marker	BerEP4
	Associated with E-Cadherin. Fibromatous lesions of the breast and abdomen.	Beta-Catenin



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FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit
	High weight glycoprotein. Luminal cells of fallopian tube	CA125
	Parafollicular C-cells in thyroid	Calcitonin
	Smooth muscle, smooth muscle tumours.	Caldesmon
	Mesothelial cell lining	Calretinin
	Low molecular weight cytokeratin 7 and 8	CAM5.2
	Dendritic cells, Langerhans cells, Thymocytes	CD1a
	T cell marker	CD3
	T-Helper cell, regulatory T-cells	CD4
	T-Cell marker	CD5
	Immature B cells and T cells	CD10
	Reed-Sternberg Cells, Granulocytes	CD15 (Leu M1)
	B cell marker	CD20
	Reed Sternberg cells and plasma cells.	CD30 (Ki1)
	Stem cells of the haematopoietic system, vascular endothelial cells.	CD31



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FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit
	Haematopoietic progenitor cells and vascular endothelium.	CD34 (QBend)
	Used for diff diagnosis of urothelial TCC in situ v non neoplastic changes in the urothelium.	CD44
	Neural cell adhesion molecule.	CD56
	Cells of monocyte/macrophage lineage	CD68
	Ewing's sarcoma	CD99 (MIC2)
	GIST and mast cells	CD117 (c-kit)
	Plasma cell marker	CD138
	Intestinal epithelium	CDX-2
	Carcinoembryonic antigen (mono)	CEA
	As above (poly)	pCEA
	Endocrine tumours/Neuroendocrine cells.	Chromogranin A
	Squamous and myoepithelial.	CK5/6
	Ductal, glandular, and transitional epithelium.	CK7
	Reacts with wide range of normal and neoplastic epithelia.	CK19



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FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit
	Gastric and intestinal epithelium, urothelium and Merkel cells.	CK20
	Cytomegalovirus	CMV
	GIST	Dog-1
	Expressed in cells of epithelial lineage.	E-Cadherin
	Normal and neoplastic epithelium	EMA
	Breast epithelial cells and some carcinomas. Used as prognostic indicator, hormone receptor status.	Estrogen Receptor
	Neutrophils and vascular endothelium.	Galectin-3
	Breast and Urothelial endothelium carcinoma	GATA-3
	Trophoblasts	Human Chorionic Gonadotropin (hCG)
	Immature melanosomes	HMB45
	Herpes Simplex Virus	Herpes Simplex Virus 1
	<i>Helicobacter pylori</i>	H-Pylori



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FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit
	Leydig, sertoli cells	Inhibin
	Proliferation marker	Ki67 (MIB1)
	Cells of lymphoid or myeloid origin	Leucocyte Common Antigen (LCA) (CD45)
	Mammaglobin protein	Mammaglobin
	Melanocytes	Melan A (MART-1)
	Pan cytokeratin.	MNF 116
	Expressed in lung and kidney tissue. +ve adenocarcinoma of lung.	Napsin A
	Cells of neural and neuroendocrine lineage	Neuron Specific Enolase (NSE)
	Normal Human Hepatocytes	OCH
	Embryonic stem cells and germ cells	OCT3/4
	P53 suppressor gene product.	p53
	Alpha-Methyl acyl-CoA enzyme.	P504s
	Nuclei of myoepithelial	P63
	Prostatic tissue	Prostatic Acid Phosphatase (PAP)
	Thyroid gland and kidney.	PAX-8



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FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit
	Germ cell tumours	Placental Alkaline Phosphatase (PLAP)
	Expressed in lymphatic endothelium.	Podoplanin (D2-40)
	Breast, ovarian, endometrial epithelia, and myometrial nuclei. Used in conjunction with ER.	Progesterone Receptor
	Normal prostate and prostate carcinoma.	Prostate Specific Antigen (PSA)
	Renal Cell Carcinoma	Renal Cell Carcinoma (RCC)
	Melanoma and neuroendocrine	S100
	Myofibroblasts, myoepithelial cells. Does not stain cardiac or skeletal muscle.	Smooth Muscle Actin (SMA)
	Smooth muscle cells	Smooth Muscle Myosin (SMM)
	Neuroendocrine cells	Synaptophysin
	Endothelial and mesothelial cells.	Thrombomodulin (CD141)
	Thyroglobulin. Precursor for T4 and T3 thyroid hormones.	Thyroglobulin
	Thyroid Transcription Factor -1 (Lung and Thyroid)	TTF-1



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FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit
	Variety of mesenchymal cells	Vimentin
	Wilms' tumour protein	WT1
FFPE tissue samples and cell blocks	Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis	Immunohistochemical staining - Documented in house methods CPPST 012 and Ventana Benchmark platform
	Non-small lung cancer tissue	ALK fusion protein ROS-1 fusion protein
	HPV infection	P16
	Melanoma	SOX-10
FFPE tissue samples and cell blocks	Detection of EGFR mutations for the purposes of clinical diagnosis	Qualitative PCR using Biocartis Idylla EGFR kit CPPST 002
	Non-small lung cancer tissue (Exon 18-21) mutation	EGFR mutation test kit
	Detection of BRAF mutations for the purposes of clinical diagnosis	Qualitative PCR using Biocartis Idylla BRAF kit BRAF mutation test kit
Slides prepared in house from samples listed above	Morphological assessment and interpretation/diagnosis	<u>Microscopy (qualitative analysis)</u> using: Leica/Nikon microscopes Consultant Reporting CPPP 003 CPPP 008



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Variety of cytology samples including washings, brushings, EBUS, CSF, Fine needle aspirations, urines and fluids.</p> <p>Synovial fluids</p> <p>Slides prepared in house from samples listed above</p>	<p><u>Cytopathological examination of tissues and fluids for the purpose of diagnosis</u></p> <p>Examination of fluids in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p> <p>Crystal identification - calcium pyrophosphate, urate and cholesterol</p> <p>Staining for nuclear detail in cells present</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p><u>Sample preparation</u> using:</p> <p>CPFM020 CPF020 and Thermo Scientific Cytospin 3 cytology centrifuge</p> <p>CPFM006 CPF014, 015, 016 and Shandon "Varistain 24-4" cytology stainer</p> <p>CPF 006 Non-gynae preparation for all fixed and non-fixed fluids</p> <p>CPF 034 Preparation of cell block for Cytology specimens</p> <p>CPF007 Joint Fluid Preparation</p> <p><u>Staining</u> using:</p> <p>CPF015 Automated Papanicolaou Staining method</p> <p><u>Microscopy (quantitative analysis):</u></p> <p>Leica/Nikon microscopes</p> <p>CPF011, CPF012 Screening and Reporting Non-Gynae Cytology Specimens</p> <p>CPMS 006 Consultant Reporting</p>



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HUMAN BODY FLUIDS	<u>Andrological examination activities for the purposes of clinical diagnosis</u>	
Semen	<u>Post vasectomy:</u> Detection of sperm	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) Manual method using large volume chambers/ manual microscopy and documented in-house procedure: CPF 037 Examination of Post Vasectomy Samples and CPF 054 Special Clearance
Semen	<u>Fertility testing:</u> Volume Sperm morphology including TZI scoring Sperm concentration Sperm motility	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method/ documented in-house procedures: CPF 003 Analysis Seminal Fluids CPF 037 Examination of Post Vasectomy Samples Volume/weight Stained slides (Papanicolau) microscopy (Bright field) Improved Neubauer counting chambers and Microscopy (Phase contrast) Microscopy (Phase contrast)
END		