

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|--|--|--|
|  <p>UKAS MEDICAL 9009</p> <p>Accredited to ISO 15189:2022</p> | <h3>Lancashire Teaching Hospitals NHS Foundation Trust</h3> <p>Issue No: 014 Issue date: 10 April 2026</p> | |
| | <p>Lancashire and South Cumbria Pathology Service Department of Cellular Pathology Victoria Hospital Whinney Heys Road Blackpool FY3 8NR</p> | <p>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</p> |

Testing performed at the above address only

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> |



9009
Accredited to
ISO 15189:2022

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

Lancashire Teaching Hospitals NHS Foundation Trust
Issue No: 014 Issue date: 10 April 2026

Testing performed at the above address only

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|---------------------------------------|---|---|
| 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 |



9009
Accredited to
ISO 15189:2022

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

Lancashire Teaching Hospitals NHS Foundation Trust
Issue No: 014 Issue date: 10 April 2026

Testing performed at the above address only

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|---------------------------------------|---|---|
| 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' |
| | Reticulin | Reticulin - silver impregnation technique |
| | Copper associated protein / HepBsAg | Shikata's Orcein |
| | Acid fast Bacilli | Ziehl Neelsen (ZN) |



9009
Accredited to
ISO 15189:2022

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

Lancashire Teaching Hospitals NHS Foundation Trust
Issue No: 014 Issue date: 10 April 2026

Testing performed at the above address only

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|---------------------------------------|--|---|
| 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 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 |
| 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 |
| | Epitheliod 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 |
| | High weight glycoprotein. Luminal cells of fallopian tube | CA125 |
| | Parafollicular C-cells in thyroid | Calcitonin |



9009
Accredited to
ISO 15189:2022

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

Lancashire Teaching Hospitals NHS Foundation Trust
Issue No: 014 Issue date: 10 April 2026

Testing performed at the above address only

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|---|---|
| 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 (cont'd) | Immunohistochemistry to detect the following: (cont'd) | Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit |
| | 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 |
| | 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 |



9009
Accredited to
ISO 15189:2022

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

Lancashire Teaching Hospitals NHS Foundation Trust
Issue No: 014 Issue date: 10 April 2026

Testing performed at the above address only

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|--|--|
| 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 (cont'd) | Immunohistochemistry to detect the following: (cont'd) Neural cell adhesion molecule. Cells of monocyte/macrophage lineage Ewing's sarcoma GIST and mast cells Plasma cell marker Intestinal epithelium Carcinoembryonic antigen (mono) As above (poly) Endocrine tumours/Neuroendocrine cells. Squamous and myoepithelial. Ductal, glandular, and transitional epithelium. Reacts with wide range of normal and neoplastic epithelia. Gastric and intestinal epithelium, urothelium and Merkel cells. Cytomegalovirus GIST | Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit CD56 CD68 CD99 (MIC2) CD117 (c-kit) CD138 CDX-2 CEA pCEA Chromogranin A CK5/6 CK7 CK19 CK20 CMV Dog-1 |



9009
Accredited to
ISO 15189:2022

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

Lancashire Teaching Hospitals NHS Foundation Trust
Issue No: 014 Issue date: 10 April 2026

Testing performed at the above address only

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|---|---|
| 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 (cont'd) | Immunohistochemistry to detect the following: (cont'd) | Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit |
| | 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 |
| | 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) |



9009
Accredited to
ISO 15189:2022

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

Lancashire Teaching Hospitals NHS Foundation Trust
Issue No: 014 Issue date: 10 April 2026

Testing performed at the above address only

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|---|--|
| <p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>FFPE tissue samples and cell blocks (cont'd)</p> | <p><u>Histopathological examination of tissues for the purpose of diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Pan cytokeratin.</p> <p>Expressed in lung and kidney tissue. +ve adenocarcinoma of lung.</p> <p>Cells of neural and neuroendocrine lineage</p> <p>Normal Human Hepatocytes</p> <p>Embryonic stem cells and germ cells</p> <p>P53 suppressor gene product.</p> <p>Alpha-Methyl acyl-CoA enzyme.</p> <p>Nuclei of myoepithelial</p> <p>Prostatic tissue</p> <p>Thyroid gland and kidney.</p> <p>Germ cell tumours</p> <p>Expressed in lymphatic endothelium.</p> <p>Breast, ovarian, endometrial epithelia, and myometrial nuclei. Used in conjunction with ER.</p> | <p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit</p> <p>MNF 116</p> <p>Napsin A</p> <p>Neuron Specific Enolase (NSE)</p> <p>OCH</p> <p>OCT3/4</p> <p>p53</p> <p>P504s</p> <p>P63</p> <p>Prostatic Acid Phosphatase (PAP)</p> <p>PAX-8</p> <p>Placental Alkaline Phosphatase (PLAP)</p> <p>Podoplanin (D2-40)</p> <p>Progesterone Receptor</p> |



9009
Accredited to
ISO 15189:2022

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

Lancashire Teaching Hospitals NHS Foundation Trust
Issue No: 014 Issue date: 10 April 2026

Testing performed at the above address only

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|---|---|
| <p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>FFPE tissue samples and cell blocks (cont'd)</p> | <p><u>Histopathological examination of tissues for the purpose of diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Normal prostate and prostate carcinoma.</p> <p>Renal Cell Carcinoma</p> <p>Melanoma and neuroendocrine</p> <p>Myofibroblasts, myoepithelial cells. Does not stain cardiac or skeletal muscle.</p> <p>Smooth muscle cells</p> <p>Neuroendocrine cells</p> <p>Endothelial and mesothelial cells.</p> <p>Thyroglobulin. Precursor for T4 and T3 thyroid hormones.</p> <p>Thyroid Transcription Factor -1 (Lung and Thyroid)</p> <p>Variety of mesenchymal cells</p> <p>Wilms' tumour protein</p> | <p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunohistochemical staining - Documented in house methods CPPST 025 Dako OMNIS and EnVision Flex Kit</p> <p>Prostate Specific Antigen (PSA)</p> <p>Renal Cell Carcinoma (RCC)</p> <p>S100</p> <p>Smooth Muscle Actin (SMA)</p> <p>Smooth Muscle Myosin (SMM)</p> <p>Synaptophysin</p> <p>Thrombomodulin (CD141)</p> <p>Thyroglobulin</p> <p>TTF-1</p> <p>Vimentin</p> <p>WT1</p> |



9009
Accredited to
ISO 15189:2022

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

Lancashire Teaching Hospitals NHS Foundation Trust
Issue No: 014 Issue date: 10 April 2026

Testing performed at the above address only

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|--|---|
| 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 | 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 |



9009
Accredited to
ISO 15189:2022

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

Lancashire Teaching Hospitals NHS Foundation Trust
Issue No: 014 Issue date: 10 April 2026

Testing performed at the above address only

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|---|---|
| <p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fine needle aspirates CSF Peritoneal washings Pleural fluid Ascitic fluid Pericardial fluid Cyst fluid Wound drainage Bronchial washings Bronchial brushings Sputum Bile duct brushings Urine</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>Automated Papanicolaou staining using Leica ST5010 stainer SOP CPF006 and CPF015</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> |

