


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|---|--|--|
|  <p>UKAS MEDICAL 8846</p> <p>Accredited to ISO 15189:2022</p> | <h3>HSL (Analytics) LLP</h3> <p>Issue No: 012 Issue date: 06 May 2025</p> | |
| | <p>Lister Hospital Coreys Mill Lane Stevenage Hertfordshire SG1 4AB</p> | <p>Contact: Andrew Clarke Tel: +44 (0) 020 7307 7342 E-Mail: Andrew.Clarke@hslpathology.com Website: www.hslpathology.com</p> |
| <p>Testing performed at the above address only</p> | | |

Site activities performed away from the locations listed above:

| Location details | Activity |
|--|--|
| <p>Ambulatory Care QE2 Hospital Howlands Welwyn Garden City Hertfordshire AL7 4HQ</p> | <p>Blood storage & issue Fridge managed by Haematology</p> |
| <p>Blood Transfusion Department Lister Hospital Coreys Mill Lane Stevenage Hertfordshire SG1 4AB</p> | <p>Blood storage & issue Fridge managed by Haematology</p> |
| <p>Hertford Hospital North Road Hertford SG14 1LP</p> <p style="text-align: right;">Local contact Elaine Stokes</p> | <p>Phlebotomy services</p> |
| <p>Lister Hospital Coreys Mill Lane Stevenage Hertfordshire SG1 4AB</p> <p style="text-align: right;">Local contact Elaine Stokes</p> | <p>Phlebotomy services</p> |
| <p>QE2 Hospital Howlands Welwyn Garden City Hertfordshire AL7 4HQ</p> <p style="text-align: right;">Local contact Elaine Stokes</p> | <p>Phlebotomy services</p> |



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DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|---------------------------|--|---|
| HUMAN BODY FLUIDS | <u>Blood Transfusion examinations to assist in clinical investigations</u> | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Blood Plasma | Antibody Identification by detection of antibodies to: Rh –C,D,E,c,e, Cw Kell –K, K, Kpa Duffy –Fya, Fyb MNSs- M, N, S, s Kidd –JKa, Jkb | Automated using Grifols Gel Column Technology DG Gel Coombs Cards, SOP BTSOP1822 (The use of Grifols Erytra SOP BTSOP1827 (Antibody Identification [manual interpretation of results |
| Blood Plasma | Antibody Identification by detection of antibodies to: Rh –C,D,E,c,e, Cw Kell –K, K, Kpa Duffy –Fya, Fyb MNSs- M, N, S, s Kidd –JKa, Jkb | Manual using Grifols DG Gel Coombs Cards SOP BTSOP1829 (Grifols Manual Techniques |
| Blood | Blood Group by detection and identification of antigens: A Rh D Positive AB Rh D Positive B Rh D Positive O Rh D Positive A Rh Negative AB Rh D Negative B RhD Negative O Rh D Negative Including the presence of A2 antigens | Automated using Grifols Gel Column Technology SOP BTSOP 1822 (The use of the Grifols Erytra |



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| HUMAN BODY FLUIDS (cont'd) | Blood Transfusion examinations to <u>assist in clinical investigations</u> (cont'd) | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Blood | Blood Group by detection and identification of antigens: A Rh D Positive AB Rh D Positive B Rh D Positive O Rh D Positive A Rh Negative AB Rh D Negative B RhD Negative O Rh D Negative Including the presence of A2 antigens | Manual using Grifols DG Gel ABO/Rh (2D + Kell Cards) SOP BTSOP 1829 (Grifols Manual Techniques) Manual tube techniques using Lorne Antisera for possible subgroups of A using SOP BTSOP1403 Equivocal ABO and Rh(D) Grouping Results with Sub-Groups of A |
| Blood Plasma | Antibody Screen by detection of antibodies to: Rh -C,D,E,c,e, Cw Kell -K, K, Kpa Duffy -Fya, Fyb MNSs- M, N, S, s Kidd -JKa, Jkb | Automated using Grifols Gel Column Technology SOP BTSOP 1822 |
| Blood Plasma | Antibody Screen by detection of antibodies to: Rh -C,D,E,c,e, Cw Kell -K, K, Kpa Duffy -Fya, Fyb MNSs- M, N, S, s Kidd -JKa, Jkb | Manual using Grifols DG Gel Coombs Cards SOP BTSOP1829 (Grifols Manual Techniques) |
| Blood Plasma | Compatibility testing of patients plasma with donor cells | Cross matching using manual indirect anti globulin test using Grifols Gel column technology and SOP BTSOP 1830 |
| Blood Plasma | Compatibility testing of patients plasma with donor cells | Cross matching using Grifols serological testing using SOP BTSOP1822 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Blood Transfusion examinations to assist in clinical investigations</u> (cont'd) | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Blood Plasma | Compatibility testing of patients plasma with donor cells | Electronic cross match using BTSOP 1510 |
| Blood Plasma | Direct Antiglobulin Test (DAT) | Automated using Grifols Gel Column technology SOP BTSOP 1822 (The use of the Grifols Erytra) and BTSOP1839 (Direct Antiglobulin Test) |
| Blood Plasma | Foetal Maternal Haemorrhage | Manual Kleihauer Acid Elution Technique using SOP BTSOP 1707 |
| Blood Plasma | Red cell phenotyping for Rh and Kell antigens | Automated using Grifols Gel Column Technology SOP BTSOP 1822 (The use of Grifols Erytra) SOP BTSOP 1825 (Red Cell Phenotyping) |
| Blood Plasma | Red Cell phenotyping for RBC antigens other than Rh and Kell | Manual using Grifols DG Gel Coombs Cards and manual tube methods using Lorne Antisera; SOP BTSOP 1825 (Red Cell Phenotyping) |
| | <u>Haematological examinations for the purpose of clinical diagnosis</u> | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Blood | HbA1c | ArkayHA8180 HPLC using SOP BSLSOPHAEM24 (Procedure on the Use of Arkay HA-8180) |



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| HUMAN BODY FLUIDS (cont'd) | <u>Haematological examinations for the purpose of clinical diagnosis</u> (cont'd) | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Blood | Adult Haemoglobinopathy analysis (including Antenatal) by detection of haemoglobin variants: Hb A2 Hb F | Documented In-House Methods to meet the requirements of the SCT screening programme as defined in the July 2018 sickle cell and thalassaemia screening: laboratory QA evidence requirements ArkayHA8180 HPLC using SOP BLSOPHAEM24 (Procedure on the Use of Arkay HA-8180) BLSOPHAEM25 (Haemoglobinopathy Screening (ANEP)) |
| Blood | Erythrocyte Sedimentation Rate (ESR) | Red blood cell sedimentation rate using sediplus s2000 analyser and M2000 mixer and SOP BSL SOP HAEM7 |
| Blood Bone marrow | Blood / Bone marrow film analysis in order to identify or exclude Morphological and Cytological abnormalities for the purpose of diagnosis | Manual Romanowsky stain using SOP BLSOPHAEM 4 Perl's Prussian blue reaction using SOP BLSOPHAEM6 |
| Blood | Blood film analysis, Detection of normal and abnormal blood cell morphology and manual differential | Automated slide and stain maker (Sysmex SP-10) which methanol fixes and stains films by Romanowsky method SOP BLSOPHAEM 33, 3, 4 and 5. |
| Blood | FBC and reticulocyte count: WB Differential Hb Platelets RBC MCV MCH MCHC Hct nRBC | Sysmex XN cytometry and spectrophotometry using SOP BLSOPHAEM31 and BLSOPHAEM32 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Haematological examinations for the purpose of clinical diagnosis</u> (cont'd) | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Blood | G6PD qualitative screen | Manual fluorescence technique using the Trinity Biotech Kit 203-A BLSOPHAEM18 |
| Blood | Detection of IM Hetrophile antibodies-Glandular Fever Screen | Manual antibody-antigen latex agglutination using the Monogen Biokit, for IM Hetrophile antibodies. BLSOPHAEM17 |
| Blood | Partial detection & speciation of malaria parasites: | Preparation of thin films, manual Giemsa staining and light microscopy using SOP BLSOPHAEM8 |
| Blood | Malarial antigens of malarial parasites spp Plasmodium falciparum HRP2 & P. falciparum, P. vivax, P. ovale, P. malariae Pan LDH | Malaria CareUS Test Kit Immunoassay BLSOPHAEM43 CareUS Rapydtest Malaria Screen |
| Blood | Insolubility of HbS Sickle cell screen | Qualitative solubility using the TCS Biosciences Sickle-Check screening kit. SOP BLSOPHAEM14 |
| Urine | Haemosiderin | Perl's Prussian blue reaction using SOP BLSOPHAEM10 |
| Blood | Coagulation testing PT INR Fibrinogen APTT/APTT ratio DDimer Clauss Fibrongen (QFA Quantitated fibrinogen assay) | Symex CS-2500 using SOP BLSOPHAEM37, BLSOPHAEM38 & BLSOPHAEM39 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Biochemistry examination activities for the purposes of clinical diagnosis:</u> | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Blood | Quantitative determination of: Beta HcG | Roche Cobas e601 Module Electrochemiluminescence-immunoassay sandwich assay BSLSOPBIO21 |
| Serum | Cortisol | Competitive Chemiluminescence Immunoassay using BLSOPBIO72 |
| Blood | Digoxin | ECL Competitive immunoassay, using BLSOPBIO38 – |
| Blood | Ferritin | Sandwich assay using BLSOPBIO64 |
| Serum | Folate | Competition assay using BLSOPBIO63 serum folate |
| Blood | FSH | Sandwich immunoassay BSLSOPBIO66 |
| Blood | FT3 | Competition principle BLSOPBIO62 |
| Blood | FT4 | Competition principle BLSOPBIO59 |
| Blood | LH | Sandwich immunoassay BSLSOPBIO67 |
| Serum | Oestradiol | Competitive Chemiluminescence Immunoassay using BLSOPBIO70 |
| Serum | PIGF – Placental Growth Factor | ECLIA using BLSOPBIO084 |
| Serum | Procalcitonin | BRAHMS Sandwich Assay using BLSOPBIO083 |
| Serum | Progesterone | Competitive Chemiluminescence Immunoassay using BLSOPBIO71 |
| Blood | PRL | Sandwich immunoassay BSLSOPBIO68 |
| Serum | PSA | Competitive Chemiluminescence Immunoassay using BLSOPBIO73 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Biochemistry examination activities for the purposes of clinical diagnosis:</u> (cont'd) | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Serum | Quantitative determination of: Free PSA | Roche Cobas e601 Module Competitive Chemiluminescence Immunoassay using BLSOPBIO74 |
| Serum | sFlt-1 - Soluble fms-Like Tyrosine Kinase-1 | ECLIA using BLSOPBIO84 |
| Serum | Testosterone | Competitive Chemiluminescence Immunoassay using BLSOPBIO69 |
| Blood | Troponin T | Electrochemiluminescence immunoassay sandwich assay BLSOPBIO27 |
| Blood | TSH | Sandwich Immunoassay BLSOPBIO |
| Blood | Vitamin B12 | Competition assay BLSOPBIO |
| Blood | Quantitative determination of: Albumin | Roche Cobas c501 module BCG method using SOP BLSOPBIO15 Cobas Albumin |
| Urine | Albumin | Immunoturbidmetric using BLSOPBIO79 |
| Blood | ALP | Amp buffer (IFCC) BLSOPBIO7 Cobas Alkaline Phosphatase (ALP) |
| Blood | ALT | Tris buffer without PLP (IFCC) BLSOPBIO8 Cobas Alanine Aminotransferase (ALT) |
| Blood | AST | ASAT/GOT UV without P5P, using BLSOPBIO6 – Cobas Aspartate Aminotransferase (AST). |
| Blood | Ammonia | Glutamate Dehydrogenase Infinity direct enzymatic method BLSOPIO4 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Biochemistry examination activities for the purposes of clinical diagnosis:</u> (cont'd) | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| | Quantitative determination of: | Roche c501 |
| Blood | Amylase | Kinetic G7PNP Substrate (IFCC) BSLSOPBIO5 |
| Blood | Bicarbonate (CO ₂) | PEP Carboxylase method BSLSOPBIO9 |
| Blood | Bilirubin (Direct) | 3 rd Party Wako Vanadate Oxidation method, using BSLSOPBIO31- WAKO Conjugated Bilirubin on Coba |
| Blood | Bilirubin (Total) | Diazo method BSLSOPBIO35 |
| Blood | Calcium | NM-BAPTA Method BSLSOPBIO10 |
| Blood | Carbamazepine | Immunoassay/turbidimetry BSLSOPBIO12 |
| Urine | Creatinine | Spectrophotometric Enzymatic using BSLSOPBIO17 |
| Blood | CRP | Immunoturbidimetry using BSLSOPBIO18 |
| Blood | Phenytoin | KIMS method BSLSOPBIO46 |
| Blood | Theophylline | KIMS method BSLSOPBIO25 |
| Blood | Chloride | Indirect ISE BSLSOPBIO22 |
| Blood | Potassium | Indirect ISE BSLSOPBIO22 |
| Blood | Sodium | Indirect ISE BSLSOPBIO22 |
| Blood | Cholesterol | Enzymatic Cholesterol Oxidase BSLSOPBIO13 |
| Blood | HDL Cholesterol | Enzymatic Cholesterol Esterase BSLSOPBIO13 |
| Blood | CK | Enzymatic UV Test NAC (IFCC), using BSLSOPBIO14 |
| Blood | Creatinine | Enzymatic method BSLSOPBIO17 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd) | Documented in house methods and manufacturers instructions for |
| | Quantitative determination of: | Roche C501 |
| Blood | Ethanol | Enzymatic UV BLSOPBIO16 |
| Blood | Salicylate | Enzymatic method BLSOPBIO24 |
| CSF | CSF Protein | Turbidimetry BLSOPBIO19 |
| Blood | Gentamicin | CEDIA Method, using BLSOPBIO48 |
| Blood | GGT | Carboxynitroanilide (IFCC) BLSOPBIO39 |
| Blood/CSF | Glucose | Hexokinase + G6PD BLSOPBIO40 |
| Blood | Iron | Ferrozine/Ferene BLSOPBIO41 |
| Blood/CSF | Lactate | Enzymatic colourimetric BLSOPBIO43 |
| Blood | LDH | L to P Glucamine (IFCC) BLSOPBIO42 |
| Blood | Lithium | Colourimetric method BLSOPBIO32 |
| Blood | Paracetamol | Colourimetric method, using BLSOPBIO45 |
| Blood | Magnesium | Xylidyl Blue (M&Y) BLSOPBIO44 |
| Blood | Phosphate | Phosphomolybdate UV BLSOPBIO47 |
| Blood | Protein (Total) | Biuret method BLSOPBIO32 |
| Urine | Protein | Spectrometric using BLSOPBIO19 |
| Blood | Triglyceride | Total glycerol GPO BLSOPBIO26 |
| Blood | Urea | Kinetic Urease BLSOPBIO28 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd) | Documented in house methods and manufacturers instructions for |
| Urine | Quantitative determination of: Urea | Roche c501 Spectrophotometric Enzymatic using BLSOPBIO28 |
| Blood | Uric Acid (Urate) | Enzymatic Uricase BLSOPBIO29 |
| Blood | Valproic Acid | Enzyme immunoassay BLSOPBIO30 |
| Blood | Vancomycin | Two point end assay using BLSOPBIO60 |
| Fluid/Urine | Urine pH | Ph/Mv/Temperature meter model 3510 BLSOPBIO37 |
| Whole Blood | Blood Gas Analysis pH pCO ₂ pO ₂ tHb & derivatives | Siemens RapidPoint 500e Series Blood gas analyser (Potentiometry, amperometry and conductance) BLSOPBIO87 |
| Serum Urine | Osmolality | Advanced Instrument Osmometer 3320 Freezing point depression BLSOPBIO1 |
| Faeces | Faecal Haemoglobin | Quantitive faecal immunoturbidmetry (FIT) using Eiken OC-Sensor IO BLSOPBIO76 |
| Blood | Calculated determination of: eGFR | Calculated in Winpath |
| Blood | Adjusted Calcium | Adjusted in Winpath |
| Serum | sFlt1 / PIGF Ratio | Calculated from Roche Cobas e601 Using BLSOPBIO084 |



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| <p>HUMAN BODY TISSUE</p> <p>Tissue: biopsy, excision, resection, and post-mortem specimens</p> | <p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p> | <p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>HISSOP111 – receipt and processing of post mortem specimens</p> <p>HISSOP112 – receipt of POC samples</p> <p>Specimen Dissection using: HISSOP81 – Cut up set up</p> <p>HISSOP78 – BMS cut up</p> <p>HISSOP64 – Assigning BMS cut up</p> <p>HISSOP41 – Cut up of large specimens by the pathologist – Bladder</p> <p>HISSOP51 – Cut up of large specimens by the pathologist – Prostate</p> <p>HISSOP60 – Cut up of large specimens by the pathologist – Penis</p> <p>HISSOP37 – Cut up of large specimens by the pathologist – Gall bladder</p> <p>HISSOP39 – Cut up of large specimens by the pathologist – Parathyroid</p> <p>HISSOP38 – Cut up of large specimens by the pathologist – Thyroid</p> <p>HISSOP40 – Cut up of large specimens by the pathologist – Small bowel</p> |



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| <p>HUMAN BODY TISSUE (cont'd)</p> <p>Tissue: biopsy, excision, resection, and post-mortem specimens (cont'd)</p> | <p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> | <p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>HISSOP54 – Cut up of large specimens by the pathologist – Uterus and cervix</p> <p>HISSOP42 – Cut up of large specimens by the pathologist – Salivary gland</p> <p>HISSOP45 – Cut up of large specimens by the pathologist – Ovary</p> <p>HISSOP46 – Cut up of large specimens by the pathologist – Fallopian tube</p> <p>HISSOP44 – Cut up of large specimens by the pathologist – Placenta</p> <p>HISSOP43 – Cut up of large specimens by the pathologist – Lymph node</p> <p>HISSOP57 – Cut up of large specimens by the pathologist – Vulva</p> <p>HISSOP55 – Cut up of large specimens by the pathologist – Colon</p> <p>HISSOP49 – Cut up of large specimens by the pathologist – laparotomy for lymphoma</p> <p>HISSOP56 – Cut up of large specimens by the pathologists – Skin</p> |



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| <p>HUMAN BODY TISSUE (cont'd)</p> <p>Tissue: biopsy, excision, resection, and post-mortem specimens (cont'd)</p> <p>Tissue: biopsy, excision, resection, and post-mortem specimens. Cytology clots</p> | <p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>Tissue processing</p> | <p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>HISSOP59 – Cut up of large specimens by the pathologist – Breast</p> <p>HISSOP52 – Cut up of large specimens by the pathologist – Spleen</p> <p>HISSOP47 – Cut up of large specimens by the pathologist – Bone</p> <p>HISSOP48 – Cut up of large specimens by the pathologist – Kidney</p> <p>HISSOP53 – Cut up of large specimens by the pathologist – Appendix</p> <p>Tissue Processing using Sakura VIP and</p> <p>HISSOP69 – Processing VIP1&2 HISSOP85 – VIP 1&2 maintenance HISSOP66 – Processing VIP3 HISSOP88 – VIP3 maintenance CPF80 – VIP usage maintenance log HISSOP65 – Removal of blocks from VIPs HISSOP84 – VIP failure</p> |



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| <p>HUMAN BODY TISSUE (cont'd)</p> <p>Tissue: biopsy, excision, resection, and post-mortem specimens</p> <p>Formalin Fixed Paraffin wax blocks of processed tissue</p> <p>Tissue for frozen sections</p> | <p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p> <p>De-calcification</p> <p>Tissue embedding</p> <p>Microtomy</p> <p>Cryotomy</p> | <p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified</p> <p>De-calcification using HISSOP70 – De-calcification CPF69 – Decal end point test</p> <p>Tissue Tek 5EC and HISSOP10 – Embedding procedure</p> <p>Tissue sectioning using Tissue Tek and Leica microtomes and HISSOP9 – The sectioning procedure CPF18 – Histology cutting list</p> <p>Cryotomy Intra-operative frozen sections using Bright Cryostat and HISSOP1 – Frozen section procedure HISSOP50 – Cut up of large specimens by the pathologist - Neurosafe</p> |



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| HUMAN BODY TISSUE (cont'd) | <u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd) | In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified |
| FFPE slides (Formalin fixed paraffin embedded) and frozen sections | Routine morphological staining For the detection of: Basophilic and eosinophilic structures | Routine morphological staining using Sakura Tissue Tek Prisma and HISSOP64 – Operation of the Prisma stainer and cover slipper HISSOP1 – Frozen section procedure |
| FFPE slides | Special stains for the detection of: Acid mucopolysaccharides Acid and Neutral Mucopolysaccharides Helicobacter Pylori Neutral Mucopolysaccharides, glycogen and fungus Elastic fibres and connective tissue Helicobacter/Microorganisms Gram positive and negative microorganisms Fungi (Aspergillus) and Pneumocystis Elastic fibres and connective tissue | Documented in-house procedures for manual special stains Alcian Blue/PAS using HISSOP14 – Alcian Blue PAS Alcian Blue using HISSOP17 – Alcian Blue Cresyl Violet Acetate using HISSOP16 – Cresyl Violet Acetate Diastase PAS using HISSOP19 – Diastase PAS Elastic van Gieson using HISSOP 11 – Elastic Van Gieson Giemsa using HISSOP30 – Giemsa Gram using HISSOP20 – Gram Grocott using HISSOP13 – Grocott Haematoxylin Van Gieson using HISSOP12 – Haematoxylin Van Gieson |



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Issue No: 012 Issue date: 06 May 2025

Testing performed at main address only

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| HUMAN BODY TISSUE (cont'd) | <u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd) | In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified |
| FFPE slides (cont'd) | Special stains for the detection of: (cont'd) | Documented in-house procedures for manual special stains |
| | Melanin, Argentaffin cells and Lipofuscin pigment | Masson Fontana using HISSOP21 – Masson Fontana |
| | Melanin | Melanin Bleach using HISSOP113 – Melanin bleach |
| | Connective tissue and fibrin | Martius Scarlett Blue using HISSOP25 – MSB |
| | Copper assoc. Protein and Hepatitis B | Orcein using HISSOP26 – Orcein |
| | Neutral Mucopolysaccharides, glycogen and fungus | PAS using HISSOP18 – PAS |
| | Reticulin fibres | Reticulin using HISSOP28 – Reticulin |
| | Mast cells | Toluidine Blue using HISSOP114 – Toluidine blue |
| | Calcium | Von Kossa using HISSOP29 – Von Kossa |
| | Tubercle bacilli | Ziehl Neelson using HISSOP23 – Ziehl Neelson |



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| FFPE slides (cont'd) | Immunohistochemistry to detect the following: Smooth muscle cells, myofibroblasts, myoepithelial cells, Diagnosis of leiomyomas, leiomyosarcomas Broad band cytokeratin marker, epithelial cell carcinomas HGPIN, prostate adenocarcinoma BCL-2 oncoprotein BCL-6 gene Epithelial cell types Ovarian cancer Carcinomas, RCC Reacts with human calretinin and intracellular calcium binding protein. Marker for mesotheliomas T cells Mature T cells, T cell lymphomas Granulocytes Reed-Sternberg cells Mature B cells, Follicular dendritic cells B cells, some T cells | Leica Bond III using HISSOP97 – Bond III staining machine procedure HISSOP106 – Antibody optimisation and validation Incorporating the following antibodies Actin AE1/3 AMACR/P63 BCL-2 BCL-6 BerEP4 CA125 CA-IX Calretinin CD3 CD5 CD10 CD20 CD21 |



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| FFPE slides (cont'd) | Immunohistochemistry to detect the following: (cont'd) | Leica Bond III using HISSOP97 – Bond III staining machine procedure HISSOP106 – Antibody optimisation and validation |
| | B Cells, Reed-Sternberg cells | CD23 |
| | Reed-Sternberg cells and ALCL | CD30 |
| | Haematopoietic cells, vascular endothelium | CD31 |
| | T cells and some soft tissue | CD34 |
| | Leukocyte common antigen | CD45 |
| | Neuroendocrine cells | CD56 |
| | Macrophages | CD68 |
| | B lymphocytes | CD79 |
| | GIST | CD117 |
| | Plasma cells | CD138 |
| | Adenocarcinoma and carcinoid (intestinal epithelium) | CDX-2 |
| | CEA glycoproteins in adenocarcinoma | CEA |
| | Neuroendocrine tumours | Chromogranin |
| | Stratified squamous epithelium, basal cells, mesotheliomas | CK5 |
| | Normal and neoplastic epithelia | CK7 |



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| FFPE slides (cont'd) | Immunohistochemistry to detect the following: (cont'd) | Leica Bond III using HISSOP97 – Bond III staining machine procedure HISSOP106 – Antibody optimisation and validation |
| | Glandular and transitional epithelium | Incorporating the following antibodies CK8/18 |
| | Basal cell carcinoma, squamous cell carcinoma | CK14 |
| | Adenocarcinomas | CK19 |
| | Adenocarcinomas, columnar epithelial cells | CK20 |
| | Striated and smooth muscle cells | Desmin |
| | GIST | DOG-1 |
| | Normal duct epithelial cells, ductal carcinoma | E-Cadherin |
| | Normal and neoplastic epithelium | EMA |
| | Nuclei of cells containing a high level of oestrogen | ER |
| | V.W factor in endothelial cells | Factor VIII |
| | Mesothelial Cells Thyroid carcinomas | HBME-1 |
| | Melanoma, melanocyte differentiation | HMB45 |
| | Proliferating Cells | Ki67 |



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| FFPE slides (cont'd) | Immunohistochemistry to detect the following: (cont'd) | Leica Bond III using HISSOP97 – Bond III staining machine procedure HISSOP106 – Antibody optimisation and validation |
| | B cells and plasma cells | Incorporating the following antibodies Kappa |
| | B cells and plasma cells | Lambda |
| | Melanoma marker | Melan A |
| | Epithelial tissue from glandular to stratified squamous | MNF116 |
| | Peripheral nerves, neuroendocrine tumours | NSE |
| | Seminomas | Oct3/4 |
| | HPV driven tumour eg Squamous cell carcinoma | P16 |
| | Neoplastic cells in epithelium | P53 |
| | Squamous epithelium | P63 |
| | Nuclei of cells showing expression of Progesterone | PR |
| | Prostate secretory and ductal epithelium | PSA |
| | Prostate secretory and ductal epithelium | PSAP |
| | Schwann cells, nerve processes, S100 +ve neoplasms eg Melanoma | S100 |



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| FFPE slides (cont'd) | Immunohistochemistry to detect the following: (cont'd) | Leica Bond III using HISSOP97 – Bond III staining machine procedure HISSOP106 – Antibody optimisation and validation |
| | Smooth muscle cells, myoepithelial cells | SMM |
| | Neuroendocrine cells | Synaptophysin |
| | TTF-1 found in lung and thyroid (thyroid follicular cells) | TTF1 |
| | Cells of mesenchymal origin | Vimentin |
| | Plasma cells | VS38c |
| | Epithelial cells and smooth muscle in fallopian tube. Wilms tumour | WT1 |
| | | Interpretive/diagnostic microscopy Using HISSOP95 – Reporting of Cellular Pathology requests CPM24 – Procedure for issuing an amended report HISSOP100 – Giving results over the telephone CPM23 – Authorisation of cellular Pathology results |



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| <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><u>Cytopathology (Non-Gynae) examination activities for the purposes of clinical diagnosis</u></p> <p>Examination of cellular material in order to identify or exclude morphological and cytological abnormalities</p> <p>Demonstration of : Cells (nuclei and cytoplasm) and micro organisms</p> | <p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Diagnostic cytology (Non-gynae) in house documented manual procedures for preparation and screening and reporting using Hologic-T2000, Sakura DRS 2000</p> <p>CYTSOP5 – General procedure for the receipt and processing of non-gynaecological specimens</p> <p>CYTSOP15 – Preparation of breast samples</p> <p>CYTSOP16 – Preparation of Bronchoscopy specimens</p> <p>CYTSOP17 – Preparation of cerebrospinal fluid (CSF)</p> <p>CYTSOP18 – Preparation of EBUS samples</p> <p>CYTSOP19 – Preparation of Head and Neck samples</p> <p>CYTSOP20 –Preparation of Lymph node aspirates</p> <p>CYTSOP21 – Preparation of natural and induced clots</p> <p>CYTSOP22 – Preparation of Serous fluids</p> <p>CYTSOP23 – Preparation of Sputum samples</p> <p>CYTSOP24 – Preparation of Urine samples</p> |



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| END | | |