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Testing performed at the above address only

Site activities performed away from the locations listed above:

Location details	Activity
Mortuary Department of Cellular Pathology Pathology Centre Queen Alexandra Hospital Portsmouth PO6 3LY	Mortuary Services Reception, body storage and release

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE Formalin fixed tissues	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> <u>Histopathology</u> Preparation and examination to identify or exclude morphological & cytological abnormalities for the purpose of diagnosis	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant) <u>Macroanalysis and dissection</u> Manual method using: LEEC Downdraft Dissecting Bench SOP: HISCMAN001 <u>Decalcification</u> Manual method using: SOP: HISPROL004 X-ray evaluation Evaluation of calcified areas using: XPERT Kubtec 80 Digital 2D-X ray machine SOP: HISPROL151 <u>Tissue Processing</u> Automated method using: Sakura Tissue-Tek VIP 6 AI Tissue Processor SOP: HISPROL150 Embedding Station Sakura Tissue-Tek TEC 6 Embedding Module SOP: HISPROL020

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)	Documented in-house procedures
Formalin fixed, paraffin embedded (FFPE) tissue		Microtomy Manual method using: Leica Histocore Biocut Leica Histocore Multicut SOP: HISPROL022
FFPE tissue	Basophilic and eosinophilic tissue structures	Automated Haematoxylin and Eosin (H&E) staining and coverslipping Sakura Tissue-Tek Prisma Plus Automated Slide Stainer and Sakura Tissue-Tek Film Coverslipper SOP: HISPROL025 and HISPROL074
Fresh tissue Frozen tissue	Intraoperative analysis: Presence or absence of malignancy Clearance of margins Presence of Thyroid or Parathyroid tissue	Rapid frozen section Cryotomy and manual Haematoxylin & Eosin (H&E) staining method using: Cryostat Epredia Cryostar NX70 SOP: HISPROL152
	Special stains	
FFPE tissue	Special staining to detect the following:	Manual methods using: SOP:HISPROL137 and the following stain methods:
	Acid & Neutral Mucins Polysaccharides including glycogen	Alcian Blue Alcian Blue Van Gieson Alcian Blue Periodic Acid Schiff with or without Diastase Periodic Acid Schiff with or without Diastase
	Haematopoietic cells	Giemsa
	Gram positive and negative bacteria	Gram
	Fungi	Grocott
	Melanin	Masson Fontana

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)	Documented in-house procedures
FFPE tissue	Special staining to detect the following:	Manual methods using: SOP:HISPROL137 and the following stain methods:
	Bleaching of melanin pigment	Acid Permanganate Melanin Bleach
	Basement Membranes and other polysaccharides	Methenamine Silver (Jones' Silver)
	Elastic fibres	Millers Elastic van Gieson
	Fibrin connective tissue	Martius Scarlet Blue
	Lipid	Oil Red O
	Copper associated protein, hepatitis infection / Elastic tissue	Orcein
	Haemosiderin	Perls
	Reticulin fibres	Gordon & Sweets' Reticulin
	Mast cells	Toludine blue
	Connective tissue	van Gieson
	Calcium salts	von Kossa
	Copper associated protein	Victoria blue
	Acid fast bacilli including Mycobacterium leprae, atypical Mycobacteria	Wade Fite
FFPE tissue	Special stains (automated)	Automated using Roche Benchmark Special Stains Instrument SOP: HISPROL 155
	Amyloid	Congo Red
	Fungi	Grocott
	Helicobacter pylori	Giemsa (Modifie)

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)	Documented in-house procedures
FFPE tissue	Special stains (automated)	Automated using Roche Benchmark Special Stains Instrument SOP: HISPROL 155
	Muscle, Connective Tissue / Fibrosis and Fibrin	Masson Trichrome
	Basement Membranes and other polysaccharides	Methenamine Sliver with light green counterstain
	Basement Membranes and other polysaccharides	Jones Methenamine Silver with H&E counterstain
	Haemosiderin	Perls
	Reticulin fibres	Untoned Reticulin
	Spirochetes, Helicobacter pylori, Bartonella henselae and Bartonella quintana	Warthin Starry
	Acid Alcohol fast bacilli (AAFB) including Mycobacterium tuberculosis	Ziehl–Neelsen
	Immunohistochemistry	
FFPE tissue	Immunohistochemistry to detect the following:	Automated methods using: Leica Bond System SOP: HISPROL101
	β CATENIN Protein	β-Catenin
	C1q complement component, Renal disease, systemic lupus erythematosus (SLE)	C1q
	C3c fragment of complement, Renal disease	C3c
	Human complement split product C4d, Renal transplant rejection	C4d

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)	Documented in-house procedures
FFPE tissue	Immunohistochemistry to detect the following:	Automated methods using: Leica Bond System SOP: HISPROL101
	Immunoglobulin A, renal nephropathy	IgA
	Immunoglobulin G, renal glomerular nephritis	IgG Poly
	Immunoglobulin M, renal nephropathy	IgM
FFPE tissue (cont'd)	Immunohistochemistry to detect the following (cont'd)	Roche Benchmark Ultra instruments and Sakura Tissue-Tek Film Coverslipper SOP: HISPROL153 and the following antibodies:
	Liver Diseases, Embryonic cells in normal tissues and germ tumours	α-Fetoprotein
	Leiomyomas, Smooth muscle cells, myoepithelial cells	Actin smooth muscle
	Expressed in normal liver and Hepatocellular Carcinoma (HCC)	Arginase-1
	Follicular lymphoma	BCL2 Oncoprotein
	Trophoblastic elements, e.g. in germ cell tumours	β-hCG
	Adenocarcinoma	Ber-EP4
	Normal/neoplastic tissue epithelial in origin	Cytokeratin Multi (AE1/AE3)
	Differentiation between renal cell tumours	CA9 (Carbonic Anhydrase IX)

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)	Documented in-house procedures
FFPE tissue (cont'd)	Immunohistochemistry to detect the following (cont'd)	Roche Benchmark Ultra instruments and Sakura Tissue-Tek Film Coverslipper SOP: HISPROL153 and the following antibodies:
	Luminal cells of the fallopian tube, Ovarian carcinoma	CA125
	Medullary thryroid carcinoma / Parafollicular (C-Cells)	Calcitonin
	Smooth muscle, myoepithelial cells, Leiomyoma	Caldesmon
	Myoepithelial cells, smooth muscle, leiomyosarcomas	Calponin
	Mesothelial cells, malignant mesothelioma	Calretinin
	Low molecular weight cytokeratin marker	CAM 5.2
	Carcinoembryonic antigen, adenocarcinoma	Carcinoembrionic Antigen
	T-cell marker, lymphoma	CD3
	T-helper cells, lymphomas	CD4
	T-cells, Lymphoma Immature B-cells, follicular dendritic cells, lymphoma	CD5 CD10
	Reed sternberg cells, hodgkins disease	CD15
	B-cell marker, lymphoma	CD20
	Mature B-cells, follicular dendritic cells, lymphoma	CD21

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)	Documented in-house procedures
FFPE tissue (cont'd)	Immunohistochemistry to detect the following (cont'd)	Roche Benchmark Ultra instruments and Sakura Tissue-Tek Film Coverslipper SOP: HISPROL153 and the following antibodies:
	Follicular dendritic cells, lymphoma	CD23
	RS Cells, lymphoma	CD30
	Endothelial cells	CD31
	Endothelial Marker	CD34
	Leukocyte common antigen, lymphoma	CD45
	Neural cell adhesion molecule, neuroendocrine cells	CD56
	Evaluation of normal and abnormal Megakaryocytes, which aides in the identification of haemopoietic malignancies	CD61
	Macrophages, stimulated T cells, lymphomas	CD68P (P12)
	B-Cell marker, lymphoma	CD79A
	Mic2 gene products, small blue round tumours	CD99
	Mast cells and GIST	CD117
	Plasma cells	CD138
	Intestinal epithelial, invasive colorectal carcinoma	CDX2
	Neuroendocrine neoplasia	Chromogranin A

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)	Documented in-house procedures
FFPE tissue (cont'd)	Immunohistochemistry to detect the following (cont'd)	Roche Benchmark Ultra instruments and Sakura Tissue-Tek Film Coverslipper SOP: HISPROL153 and the following antibodies:
	Differentiation between mesothelioma and carcinoma	Claudin 4
	Cytomegalovirus (CMV) infected tissue	CMV
	Squamous, basal epithelia, mesothelioma	Cytokeratin 5
	Glandular, transitional epithelia, gynaecological tumours, lung carcinoma	Cytokeratin 7
	Squamous, basal epithelia	Cytokeratin 14
	Epithelial cells, metastatic breast carcinoma in nodes	Cytokeratin 19
	Gastrointestinal epithelia, colonic carcinoma	Cytokeratin 20
	Vascular smooth muscle, leiomyomas, leiomyosarcomas, rhabodomyosarcomas	Desmin
	Gastro Intestinal Stromal tumours (GIST)	DOG-1
	Lymphovascular invasion	D240
	Mammary duct epithelia, invasive breast carcinoma	E-Cadherin
	Epithelial cells, mesothelial cells	EMA
	Oestrogen Receptor, ER positive breast carcinoma	ER

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)	Documented in-house procedures
FFPE tissue (cont'd)	Immunohistochemistry to detect the following (cont'd)	Roche Benchmark Ultra instruments and Sakura Tissue-Tek Film Coverslipper SOP: HISPROL153 and the following antibodies:
	Fibrohistocytic Tumour, dermatofibroma	Factor XIIIa
	Differentiation of carcinoma	GATA3
	Gross Cystic Disease Fluid Protein, breast tumours	GCDFP 15
	Hepatocellular carcinoma	Glypican 3
	Mesothelial cells	HBME-1
	Differential diagnosis of hepatocellular tumours	Hepatocyte HEPAR1
	Human Epidermal growth factor Receptor 2	HER2
	Melanosomes, melanoma	HMB45
	High molecular weight cytokeratins	HMCK
	IgG4 disease	IgG4
	Leydig, Sertoli cells	Inhibin
	Immunoglobulin Kappa light chains, plasma cells, renal disease	Kappa
	Proliferation marker	Ki67
	Immunoglobulin Lambda light chains, plasma cells, renal disease	Lambda
	Melanocytes, malignant melanoma	Melan A

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)	Documented in-house procedures
FFPE tissue (cont'd)	Immunohistochemistry to detect the following (cont'd)	Roche Benchmark Ultra instruments and Sakura Tissue-Tek Film Coverslipper SOP: HISPROL153 and the following antibodies:
	Mismatch repair protein, Lynch syndrome	MLH-1
	Broad range cytokeratin, epithelial cells	MNF116
	Mismatch repair protein, Lynch syndrome	MSH-2
	Mismatch repair protein, Lynch syndrome	MSH-6
	Napsin A	Napsin A
	Melanoma	PRAME
	Androgen Receptor eg breast tumours	AR
	Germ cell tumours	OCT 3/4
	HPV, oral SCC, cervical carcinoma	P16
	Basal cells of squamous epithelia and squamous cell carcinoma	P40
	Tumour suppressor gene	p53
	Basal cells in benign prostate, squamous epithelial cells, squamous cell carcinoma	p63
	Neoplastic prostate glands, prostate carcinoma	p504S
	Kidney, ovarian and thyroid cancer	PAX 8

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)	Documented in-house procedures
FFPE tissue (cont'd)	Immunohistochemistry to detect the following (cont'd)	Roche Benchmark Ultra instruments and Sakura Tissue-Tek Film Coverslipper SOP: HISPROL153 and the following antibodies:
	Mismatch repair protein, Lynch syndrome	PMS2
	Placental Alkaline Phosphatase, Molar pregnancies, choriocarcinoma	Placental Alkaline Phosphatase
	Membranous nephropathy	PLA2R
	Polyoma virus, renal transplant rejection	Polyoma
	Progesterone Receptor, breast cancer	Progesterone Receptors
	Prostatic Acid Phosphatase, prostate	Prostate-specific Acid Phosphatase
	Prostate epithelium, prostate specific antigen	Prostatic Specific Antigen
	Melanoma, neuroendocrine	S100
	Myoepithelial cells in the breast / identification of smooth muscle neoplasm.	Smooth Muscle Myosin
	Melanocytic marker	SOX10
	Neuroendocrine marker	Synaptophysin
	Lumen of thyroid follicles, thyroid tumours	Thyroglobulin
	Thyroid Transcription factor-1, adenocarcinoma of lung and thyroid	TTF-1

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)	Documented in-house procedures
FFPE tissue (cont'd)	Immunohistochemistry to detect the following (cont'd)	Roche Benchmark Ultra instruments and Sakura Tissue-Tek Film Coverslipper SOP: HISPROL153 and the following antibodies:
	Mesenchymal Marker, sarcomas	Vimentin
	Wilms tumour gene product, ovarian serous carcinoma	WT1
	Microscopy (qualitative analysis)	
Slides prepared in-house from sample types listed above	Morphological assessment and interpretation/diagnosis	In-house procedures: SOP: HISRMAN001 using microscopes: Leica DMLB Leica DM1000LED Leica DM2000LED Leica DM2500 Leica DM3000LED Leica DM4000B Olympus BH-2 Olympus BX41 Olympus BX50 Olympus BX51 Olympus BX53 Nikon Eclipse E400 Zeiss Axioskop-2
Skin Biopsies (non-FFPE)	Skin Immunofluorescence	Cryotomy Epredia Cryostar NX70 SOP: HISPROL152
Skin Biopsies (non-FFPE)	Detection of Immunoglobulin: IgA IgG C3c	FITC Staining SOP: HISPROL030 using FITC antibodies: IgA FITC IgG FITC C3c FITC

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) FITC Microscopy (qualitative analysis)	Documented in-house procedures
Slides prepared in-house from sample types listed above	Morphological assessment and interpretation/diagnosis	In-house procedures: SOP: HISRMAN001 using microscope Olympus BX53 with Meanwell Cool LED pE100 attachment
Renal Biopsies Formalin fixed tissue	Renal Biopsies	Sample Preparation In-house procedures: SOP: HISPROL024 using: Zeiss Stemi DV4 Stereo Microscope Tissue Processing In-house procedures: using: Sakura Tissue-Tek VIP6 AI Tissue Processor SOP: HISPROL024 Embedding Manual method using: Sakura Tissue-Tek TEC 6 Embedding Module SOP: HISPROL020
FFPE tisue		Microtomy Manual method using: Leica Histocore Multicut SOP: HISPROL022
FFPE tissue	Basophilic and eosinophilic tissue structures	Automated or manual Haematoxylin and Eosin (H&E) staining Automated method using: Sakura Tissue-Tek Prisma Plus Automated Slide Stainer and Sakura Tissue-Tek Film Coverslipper SOP: HISPROL025 Manual H&E staining using method: HISINS115

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)	Documented in-house procedures
	Immunohistochemistry	
FFPE tissue	Detection of Immunoglobulin:	Automated methods as detailed above using antibodies:
	C1q complement component, Renal disease, systemic lupus erythematosus (SLE)	C1q
	C3c fragment of complement, Renal disease	C3c
	Human complement split product C4d, Renal transplant rejection	C4d
	Cytomegalovirus (CMV) infected tissue	CMV
	Immunoglobulin A, renal nephropathy	Ig A
	IgG4 disease	IgG4
	Immunoglobulin G, renal glomerular nephritis	IgG poly
	Immunoglobulin M, renal nephropathy	IgM
	Polyoma virus, renal transplant rejection	Polyoma
	Membranous nephropathy	PLA2R

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) Microscopy (qualitative analysis)	Documented in-house procedures
Slides prepared in-house from sample types listed above	Morphological assessment and interpretation/diagnosis	In-house procedures: SOP: HISRMAN001 using microscopes: Leica DMLB Leica DM1000LED Leica DM2000LED Leica DM2500 Leica DM3000LED Leica DM4000B Olympus BH-2 Olympus BX41 Olympus BX50 Olympus BX51 Olympus BX53 Nikon Eclipse E400 Zeiss Axioskop-2
Renal Biopsies (non-FFPE)	Preparation of tissue for transport to external laboratory Electron Microscopy: Interpretation of micrograph	Sample Receipt and Handling In-house procedures: SOP: HISPROL024 using: Zeiss Stemi DV4 Stero Microscope
Resin blocks, semi-thin sections and electron micrograph produced by accredited referral laboratory on specimen types specified above	Morphological assessment and interpretation/diagnosis	Qualitative analysis In-house procedures: SOP: HISRMAN001 using microscopes: Leica DMLB Leica DM1000LED Leica DM2000LED Leica DM2500 Leica DM3000LED Leica DM4000B Olympus BH-2Olympus BX41 Olympus BX50 Olympus BX51 Olympus BX53 Nikon Eclipse E400 Zeiss Axioskop-2

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Cytopathological examination activities for the purposes of clinical diagnosis Diagnostic Cytopathology	Documented in-house procedures in conjunction with manufacturers instructions
Body fluid: Urine Joint fluid Serous effusions Endoscopic brushings Ultrasound guided endoscopic aspirations (EUS / EBUS) in transport fluid Fine needle aspirates Needle washings Bronchial washings and lavages Cerebrospinal fluid (CSF) Intraocular sample Peritoneal washings Nipple discharge	Preparation and examination of cellular material in order to identify or exclude morphological and cytological abnormalities	Preparation/centrifugation In-house procedures: SOP: CYTPROL058 in conjunction with manufacturer's instructions using: Thermo Shandon Cytospin 4 Sigma 3-16L Centrifuge Hologic T2000 processor
Slides prepared in-house from sample types listed above	Staining to identify or exclude morphological and cytological abnormalities	Papanicolaou staining Automated using in-house procedures: SOP: CYTPROL082 in conjunction with manufacturer's instructions using: Sakura Tissue-Tek Prisma Plus Automated Slide Stainer and Sakura Tissue-Tek Film Coverslipper
Slides prepared in-house from sample types listed above	Staining to identify or exclude morphological and cytological abnormalities	May - Grünwald Giemsa staining Automated using in-house procedures: SOP: CYTPROL082 in conjunction with manufacturer's instructions using: Sakura Tissue-Tek Prisma Plus Automated Slide Stainer and Sakura Tissue-Tek Film Coverslipper

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Cytopathological examination activities for the purposes of clinical diagnosis (cont'd) Microscopy (qualitative analysis)	Documented in-house procedures
Slides prepared in-house from sample types listed above	Morphological assessment and interpretation/diagnosis	In-house procedures: SOP: CYTPROL091 SOP: CYTRMAN001 using microscopes: Leica DMLB Leica DM2500 Leica DM1000LED Leica DM2000LED Leica DM3000LED Leica DM4000B Leica DMLS Leica DMRB Olympus BH-2 Olympus BX41 Olympus BX50 Olympus BX51 Olympus BX53 Nikon Eclipse E400 Zeiss Axioskop-2
	Joint Crystals	
Joint fluid	Preparation and examination to identify Joint Crystals	Sample preparation: Temporary (wet) & permanent preparations Wet preparation for immediate crystal analysis (polarising microscopy) Permanent preparation for cellular analysis SOP: CYTPROL158

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	Cytopathological examination activities for the purposes of clinical diagnosis (cont'd) Microscopy (qualitative analysis) (cont'd)	Documented in-house procedures
Slides prepared in-house from sample types listed above	Assessment of cellularity and the presence or absence of crystals Crystals are then further identified as urates (gout) or pyrophosphates (pseudogout)	Polarised light microscopy using in-house procedures: SOP: CYTPROL091 SOP: CYTPROL158 SOP: CYTRMAN001 using microscopes: Leica DMLB Leica DM2500 Leica DM1000LED Leica DM2000LED Leica DM3000LED Leica DM4000B Leica DMLS Olympus BH-2 Olympus BX41 Olympus BX50 Olympus BX51 Olympus BX53 Nikon Eclipse E400 Zeiss Axioskop-2
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