


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2012	Viapath Analytics LLP	
	Issue No: 009 Issue date: 18 February 2020	
	Dermatopathology and Immunodermatology St. John's Institute of Dermatology South Wing, Staircase C St. Thomas' Hospital Westminster Bridge Road London SE1 7EH	Contact: Fiona Denham Tel: +44 (0) 7718195287 Fax: +44 (0) 2071882948 E-Mail: fiona.denham@viapath.co.uk Website: www.viapath.co.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address St. John's Institute of Dermatology South Wing, Staircase C St Thomas Hospital Westminster Bridge Road London SE1 7EH	Local contact Fiona Denham (as above)	Histopathology ST
Mohs Micrographic Surgery Laboratory O1 Outpatients Village, Cancer Centre Guy's Hospital Great Maze Pond London SE1 9RT	Fiona Denham (as above)	Mohs' Micrographic Surgery: Preparation of frozen blocks & slides GMohs



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>HUMAN TISSUES</p> <p>Formalin fixed tissues: Skin Mucosa Soft tissues Lymphoid tissues</p> <p>Formalin fixed, paraffin embedded (FFPE) tissues from: Skin Mucosa Soft tissues Lymphoid tissues</p>	<p><u>Dermatopathology</u></p> <p>Histopathological examination to identify or exclude morphological and cytological abnormalities</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p>	
		<p><u>Specimen macroanalysis & dissection</u>, manual methods using: DMH-SOP-103 DMH-SOP-109 DMH-SOP-113</p>	ST
		<p><u>Decalcification</u>, manual method using: DMH-SOP-53</p>	ST
		<p><u>Tissue Processing</u>, automated using: DMH-SOP-30 DMH-SOP-109 DMH-SOP-127 and Leica ASP300S & Sakura Tissue Tek VIP6 Tissue Processors</p>	ST
		<p><u>Embedding</u>, automated using: DMH-SOP-40 DMH-SOP-109 and Sakura Tissue-Tek 5 & Tissue-Tek TEC 6 Tissue Embedding Consoles</p>	ST
	<p><u>Tissue sectioning</u>, manual microtomy using: DMH-SOP-39 DMH-SOP-64 and Leica Biocuts & RM2235 Microtomes</p>	ST	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES (cont'd)	<u>Dermatopathology</u> (cont'd) Histopathological examination to identify or exclude morphological and cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
FFPE tissues from: Skin Mucosa Soft tissues Lymphoid tissues		<u>PCR sectioning</u> , manual method using: DMH-SOP-60 DMH-SOP-39 and Leica Biocuts Microtome	ST
FFPE tissues from: Skin Mucosa Soft tissues Lymphoid tissues	Basophilic and eosinophilic tissue structures	<u>Routine Haematoxylin & Eosin (H & E) staining & coverslipping</u> , automated using: DMH-SOP-28 DMH-SOP-101 and Leica Autostainer XL Leica Robotic Coverslipper	ST
FFPE tissues from: Skin Mucosa Soft tissues Lymphoid tissues	Special stains to detect the following:	<u>Special staining</u> , manual techniques using: DMH-SOP-52 for staining with:	ST
	Acid mucins (sulphomucins & sialomucins)	Alcian blue	
	Acid mucins (sulphomucins & sialomucins); neutral mucins; mixed mucins	Alcian Blue/PAS	
	Mast cells and neutrophils	Chloroacetate esterase	
	Amyloid	Crystal Violet (metachromatic)	
	Mast cells	Giemsa	
	Gram positive/negative bacteria	Gram stain	
	Fungi	Grocott-Gomori Methanamine Silver	



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HUMAN TISSUES (cont'd)	<u>Dermatopathology</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	ST
FFPE tissues from: (cont'd)	Histopathological examination to identify or exclude morphological and cytological abnormalities (cont'd)		
Skin	Special stains to detect the following: (cont'd)	<u>Special staining</u> , manual (cont'd):	
Mucosa	Acid mucins	Hale's colloidal iron	
Soft tissues	All tissue structures	Haematoxylin and Eosin (manual)	
Lymphoid tissues	Amyloid	Highman's Congo Red	
	Fibrin	Martius, Scarlet & Blue stain (MSB)	
	Melanin	Masson Fontana/Melanin Bleach	
	Connective tissue; muscle	Masson Trichrome	
	Elastic fibres	Miller's Elastic Van Gieson	
	Carbohydrates	PAS +/- diastase	
	Haemosiderin	Perls' Prussian Blue	
	Amyloid	Thioflavin T	
	Mast cells	Toluidine Blue	
	Connective tissue; muscle	Van Gieson (Weigert's)	
	Calcium	Von Kossa	
	<i>Mycobacterium leprae</i>	Wade-Fite	
	<i>Mycobacterium tuberculosis</i>	Ziehl-Neelsen	



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<p>HUMAN TISSUES (cont'd)</p> <p>FFPE tissues from: Skin Mucosa Soft tissues Lymphoid tissues</p>	<p><u>Dermatopathology</u> (cont'd)</p> <p>Histopathological examination to identify or exclude morphological and cytological abnormalities (cont'd)</p> <p>Immunohistochemistry to detect the following:</p> <p>a/b TCR bearing T lymphocytes</p> <p>p80 protein (fusion protein)</p> <p>Androgen receptor (acinar, myoepithelial, stromal and neoplastic epithelial cells)</p> <p>Bcl-oncoprotein (mantle zone B lymphocytes & interfollicular T lymphocytes and other rare tumour types)</p> <p>Bcl6 protein (germinal centre B lymphocytes)</p> <p>BRAF V600E mutation in melanoma</p> <p>H-caldesmon (vascular & peripheral smooth muscle; other contractile cells)</p> <p>Calponin (calcium binding) protein (Vascular & peripheral smooth muscle cells; other contractile cells)</p> <p>Cytokeratin 8 & 18 (simple glandular & transitional and columnar epithelia,)</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Immunohistochemistry</u>, automated using: DMH-SOP-2 DMH-SOP-3 DMH-SOP-102 and Roche Ventana Benchmark Ultra using antibodies:</p> <p>$\alpha\beta$-TCR</p> <p>ALK-1 CD246</p> <p>ANDROGEN REC</p> <p>BCL-2</p> <p>BCL-6</p> <p>BRAF V600E</p> <p>CALDESMON</p> <p>CALPONIN</p> <p>CAM5.2</p>	<p>ST</p>



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HUMAN TISSUES (cont'd)	<u>Dermatopathology</u> (cont'd) Histopathological examination to identify or exclude morphological and cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	ST
FFPE tissues from: (cont'd) Skin Mucosa Soft tissues Lymphoid tissues	Immunohistochemistry to detect the following: (cont'd) MHC class 1 related cell surface glycoprotein (cortical thymocytes; Langerhan's cells; interdigitating reticulum cells)	<u>Immunohistochemistry</u> (automated, Roche Ventana Benchmark Ultra cont'd) CD1a	
	LFA2 receptor (circulating T lymphocytes)	CD2	
	CD3 (T lymphocytes; helper/inducer T lymphocytes)	CD3	
	CD4 (Helper/inducer T lymphocytes)	CD4	
	CD5 (Germinal centre T lymphocytes; B lymphocyte subset)	CD5	
	CD7 (Peripheral blood T lymphocytes; NK cells; thymocytes)	CD7	
	CD8 (Suppressor/cytotoxic T lymphocytes)	CD8	
	CD10 (Normal, early progenitor lymphoid cells; B lymphocytes in germinal centres)	CD10	
	CD15 (Hodgkin's & Reed-Sternberg cells)	CD15	
	CD20 (B lymphocytes)	CD20	



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HUMAN TISSUES (cont'd)	<u>Dermatopathology</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	ST
FFPE tissues from: (cont'd)	Histopathological examination to identify or exclude morphological and cytological abnormalities (cont'd)		
Skin	Immunohistochemistry to detect the following: (cont'd)	<u>Immunohistochemistry</u> (automated, Roche Ventana Benchmark Ultra cont'd)	
Mucosa	CD21 (Follicular dendritic cells)	CD21	
Soft tissues	Interleukin-2 receptor alpha subunit (Activated T lymphocytes; NK cells)	CD25	
Lymphoid tissues	CD30 (Hodgkin's & Reed-Sternberg cells)	CD30	
	CD31 (Endothelial cells; plasma cells; activated B & T lymphocytes)	CD31	
	CD34 (Haemopoietic precursor cells; endothelial cells; fibroblasts; other cell types in various solid tumours)	CD34	
	CD43 (T lymphocytes; myeloid lineage cells)	CD43	
	CD45 (T & B lymphocytes)	CD45 LCA	
	CD45RA (All B lymphocytes; some mature T lymphocytes)	CD45RA	
	CD45RO (Mature, activated T lymphocytes; sub-population of resting T lymphocytes)	CD45RO UCHL1	
	CD56 (Peripheral nerves; NK cells; neuroendocrine differentiation)	CD56	



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HUMAN TISSUES (cont'd)	<u>Dermatopathology</u> (cont'd) Histopathological examination to identify or exclude morphological and cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	ST
FFPE tissues from: (cont'd) Skin Mucosa Soft tissues Lymphoid tissues	Immunohistochemistry to detect the following: (cont'd) CD68 (Macrophages; monocytes; granulocytes) CD79a (Normal & neoplastic B lymphocytes) CD99 (T lymphocytes; islet cells; endothelial cells, Ewing's sarcoma; other rare spindle cell tumours) Interleukin 3 receptor a-chain (Monocytes; neutrophils; basophils) Carcino-embryonic antigen (Adenocarcinomas, epithelial cells of the glandular lumen) Chromogranin A (neuroendocrine cells and tumours) Pan-keratin (simple & complex epithelia) Cytokeratin 20 (GI epithelia) Claudin-1 transmembrane protein (epithelial, perineural and endothelial cells) BCA-1(T-helper cells)	<u>Immunohistochemistry</u> (automated, Roche Ventana Benchmark Ultra cont'd) CD68 CD79a CD99 CD123 CEA CHROMOG. CK AE1/3/PCK26 CK20 CLAUDIN CXCL-13	



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HUMAN TISSUES (cont'd)	<u>Dermatopathology</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	ST
FFPE tissues from: (cont'd)	Histopathological examination to identify or exclude morphological and cytological abnormalities (cont'd)		
Skin	Immunohistochemistry to detect the following: (cont'd)	<u>Immunohistochemistry</u> (automated, Roche Ventana Benchmark Ultra cont'd)	
Mucosa	Podoplanin transmembrane mucoprotein (Lymphatic endothelial cells; FDCs; dysplastic keratinocytes)	D2-40 PODOPLANIN	
Soft tissues	Desmin (Smooth & striated muscle cells)	DESMIN	
Lymphoid tissues	Epithelial membrane antigen (Glandular & ductal epithelia, perineurium; other cell types in various tumours)	EMA	
	Ewing sarcoma	ERG	
	Von Willebrand Factor (endothelial cells)	FACTOR VIIIIRA	
	Factor XIII A (Dermal dendrocytes)	FACTOR XIII A	
	Fli-1 proto-oncogene (haematopoietic cells, dendritic cells, fibroblasts and histiocytes)	FLI-1	
	Gross cystic disease fluid protein (apocrine cells)	GCDFP 15	
	Glucose transporter type 1	GLUT-1	
	Neutral serine protease (Lytic granules of Cytotoxic T lymphocytes & NK cells)	GRANZYME B	



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FFPE tissues from: (cont'd) Skin Mucosa Soft tissues Lymphoid tissues	Histopathological examination to identify or exclude morphological and cytological abnormalities (cont'd)		
	Immunohistochemistry to detect the following: (cont'd)	<u>Immunohistochemistry</u> (automated, Roche Ventana Benchmark Ultra cont'd)	
	Human herpes virus 8 (Kaposi's sarcoma)	HHV8	
	Human melanoma black 45 antigen (Activated melanocytes; melanocytic tumours)	HMB45	
	Inducible T cell costimulator (CD278)	ICOS	
	Insulin-like growth factor II mRNA binding protein 3 (early embryonic tissues; subsets of carcinoma)	IMP3	
	Ki-67 nuclear antigen (proliferating cells; cells in cycle)	Ki67 MIB-1	
	Laminin (basement membranes)	LAMININ	
	Langerin (Birbeck granules in Langerhan's cells)	LANGERIN	
	Lysozyme (monocytes; macrophages)	LYSOZYME	
L1 (Calprotectin) molecule (Histiocytes; macrophages)	MAC387		
Melan A (MART-1) differentiation antigen (Normal, activated & neoplastic melanocytes)	MELAN A/MART-1		



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HUMAN TISSUES (cont'd)	<u>Dermatopathology</u> (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	ST
FFPE tissues from: (cont'd)	Histopathological examination to identify or exclude morphological and cytological abnormalities (cont'd)		
Skin	Immunohistochemistry to detect the following: (cont'd)	<u>Immunohistochemistry</u> (automated, Roche Ventana Benchmark Ultra cont'd)	
Mucosa			
Soft tissues	Microphthalmia transcription factor (Normal, activated & neoplastic melanocytes)	MITFp-1	
Lymphoid tissues	MLH-1 mismatch repair protein	MLH-1	
	Cytokeratins 5, 6, 8, 17, 19 (all epithelia)	MNF116 (PAN-K)	
	Muscle specific actin (smooth muscle & myoepithelial cells)	MSA	
	MSH-2 mismatch repair protein	MSH2	
	Multiple myeloma oncogene-1	MUM-1	
	Myogenin protein (Skeletal muscle cells; muscle differentiation)	MYOGENIN	
	Melanoma associated antigen (Normal, activated & neoplastic melanocytes)	NKI/C3	
	Enolase gamma subunit (neuronal & neuroendocrine cells)	NSE	
	p16INK4a oncoprotein (normal, activated and neoplastic melanocytes)	p16	
	p53 tumour suppressor protein (carcinomas; many neoplasms & normal cells)	p53	



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FFPE tissues from: (cont'd)	Histopathological examination to identify or exclude morphological and cytological abnormalities (cont'd)		
Skin	Immunohistochemistry to detect the following: (cont'd)	<u>Immunohistochemistry</u> (automated, Roche Ventana Benchmark Ultra cont'd)	
Mucosa	p63 (normal proliferating cells; poorly differentiated squamous cell carcinoma, basal cells; abluminal cells)	p63	
Soft tissues	Programmed cell death protein 1 (systemic lupus erythematosus, T-cells in germinal centres, mantle zones and interfollicular zones)	PD1	
Lymphoid tissues	Protein gene product (neurons, neuroendocrine cells)	PGP 9.5	
	S100 protein (Normal & neoplastic melanocytes; macrophages; adipocytes; nerve fibres; many tumour types)	S100	
	Smooth muscle actin (smooth muscle, myoepithelial & other contractile cells)	SMA	
	Sry-related HMG-BOX gene 10 (residual desmoplastic melanoma, normal, activated and neoplastic melanocytes)	SOX-10	
	TIA-1 protein (cytolytic lymphocytes, cytotoxic T- cells)	TIA-1	
	Tyrosinase enzyme (Normal, activated & neoplastic melanocytes)	TYROSINASE	



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FFPE tissues from: Skin Mucosa Soft tissues Lymphoid tissues	In-situ hybridisation for: EBV HPV-Low risk HPV-High risk KAPPA LAMBDA	<u>In-situ hybridisation</u> , automated using: DMH-SOP-3 DMH-SOP-102 and Roche Ventana Benchmark Ultra	ST
Skin from Mohs' micrographic surgery	Histopathological examination of common skin malignancies to provide assessment of the circumpheral, peripheral and deep margins	<u>Preparation of Mohs' frozen blocks and slides</u> using: DMH-SOP-29 DMH-SOP-31 DMH-SOP-78 DMH-SOP-104 DMH-SOP-120 DMH-SOP-121 and Leica CM1950 Cryostat Shandon Linistainer Prestochill cryoembedder	GMohs
		<u>'Slow' Mohs' procedure</u> using: DMH-SOP-74 and equipment as for Routine Histopathology	ST



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FFPE Lymphoid tissues	Histopathological examination to provide assessment of early metastases in cases of malignant melanoma	<u>Sentinel lymph node protocol</u> using: DMH-SOP-63 and equipment as for Routine Histopathology	ST
FFPE Skin	Histopathological examination to identify or exclude the diagnosis of scarring and non-scarring alopecia	<u>Alopecia protocol</u> using: documented in-house procedure: DMH-SOP-62 and equipment as for Routine Histopathology	ST
Hair (hair bulbs)	Assessment to provide telogen count in cases of alopecia	<u>Trichogram protocol</u> using: DMH-SOP-67 and equipment as for Routine Histopathology with microscopy using: Brunel Microscope HG78	ST
Slides prepared in-house from sample types listed above	Morphological assessment and interpretation/diagnosis	<u>Microscopy (qualitative analysis)</u> using: DMH-SOP-114 and Leitz Laborlux 12 Olympus CX40 Olympus CX41 Olympus BX40 Olympus BX50 Olympus BX51 Olympus BX53 Nikon Eclipse 600 Nikon Optiphot Nikon AlphaphotII	ST



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HUMAN TISSUES AND FLUIDS	<u>Immunodermatology</u>	Examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
Skin Oral mucosa Conjunctiva	Detection of the following bullous autoantibodies:	<u>Cryotomy</u> using: DMI-SOP-4 DMI-SOP-8 and Leica CM1950UV Cryostats	ST
	IgM	FITC labelled IgM	
	IgG	FITC labelled IgG	
	IgA	FITC labelled IgA	
	C ₃ (complement)	FITC labelled C ₃	
	Fibrinogen	FITC labelled Fibrinogen	
Serum	Detection of the following bullous autoantibodies:	<u>Indirect immunofluorescence staining & microscopy</u> using: DMI-SOP-21 DMI-SOP-11 and Zeiss Axiolab A1 Fluorescence Microscope with antibodies:	ST
	IgM	FITC labelled IgM	
	IgA	FITC labelled IgA	
	C ₃ (complement)	FITC labelled C ₃	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Immunodermatology</u> (cont'd)	Examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
Serum	Detection of the following autoantibodies: Desmoglein 1 (DSG1) Desmoglein 3 (DSG3) BP180 BP230 Collagen type VII NC1 & NC2 (COLVII)	<u>ELISA and spectrophotometric analysis</u> using: DMI-SOP-21 DMI-SOP-22	ST
END			