Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address 3rd Floor, Link Building Aberdeen Royal Infirmary Aberdeen AB25 2ZD United Kingdom	Local contact Contact: Wendy Leaper Tel: +44 (0)1224552858 Fax: +44 (0)1224663002 E-Mail: wendy.leaper@nhs.scot	Routine Histopathology Special Stains Immunocytochemistry Immunofluorescence Frozen Section Histology Cytology -Diagnostic	A
Address Breast Clinic Aberdeen Royal Infirmary Aberdeen AB25 2ZD United Kingdom	Local contact As above	Breast Clinic	С

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Old Laundry room Woodend Hospital Eday road Aberdeen AB15 6XS	As above	Storage of blocks slides and request forms- no testing performed at this site.	D



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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
HUMAN BODY FLUIDS and TISSUES	Diagnostic Cytology examinations to assist in clinical investigations	In House documented procedure & manufacturer's instructions using the following	
Wet Fixed Preparations – Body fluids, urine, CSFs, washings, brushings, EUSFNA	Processing and Staining of Diagnostic Specimens for detection of abnormal cells	Manual Processing – Documented procedures – PCD 03, PCD 11, PCD 13, PCD 36	A
		Documented procedure & manufacturer's instructions using Hologic T5000 sample processor – PCD 37, PCD 08, PCD 26, PCD 27, PCD 33, PCD 34 Papanicolau - Documented procedure & manufacturer's instructions using Leica Autostainer XL – PCSt 13 Papanicolau-Manual method using documented procedure - PCSt 02	
Air Dried Preparations - Body fluids, CSFs	Processing and Staining of Diagnostic Specimens for detection of abnormal cells	Manual Processing – Documented procedures – PCD 03, PCD 11, PCD 13, PCD 36 May Grunwald Giemsa (MGG) Manual method using documented procedure – PCSt 03	A
FNA Wet Fixed Preparations Breast, Thyroid, Lymph nodes etc	Processing and Staining of Diagnostic Specimens for detection of abnormal cells	Manual Processing – PCD 14, PCD 15, PCD 16 Papanicolau-Manual method using documented procedure - PCSt 02	A & C
FNA Air Dried Preparations - Breast, Thyroid, Lymph nodes etc	Processing and Staining of Diagnostic Specimens for detection of abnormal cells	Manual Processing – PCD 14, PCD 15, PCD 16 RAL 55-Rapid Giemsa Manual method using documented procedure – PCSt 04	A & C
Cell Block Preparations - Body fluids, urine, CSFs, washings, brushings, EUSFNA, needle washings from Breast, Thyroid, Lymph node FNAs Etc	Preparation of cell block from Diagnostic Specimens for detection of abnormal cells	Documented procedure – PCD 19	A

DETAIL OF ACCREDITATION



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Materials/Products tested	Type of test/Properties measured/Range of	Standard specifications/ Equipment/Techniques used	Location Code
	measurement		Code
HUMAN BODY FLUIDS and TISSUES (cont'd)	Frozen Section Histology examinations to assist in clinical investigations	In House documented procedure & manufacturer's instructions using the following	
Tissue samples	Detection of abnormal cells	Documented in the range PCBR 101 - 109	A
		Leica Cryostat (Cryostar NX50 & CM1860 UV Cryostat) PCBR102 &109	
	Routine Histopathology examinations to assist in clinical investigations	In House documented manual methods and manufacturer's instructions	
Tissue samples	Specimen Dissection	Manual method using documented procedures in the range PHD101 – 117. Dissections performed on AFOS Ventilated Specimen Table.	A
	Tissue processing	Documented procedure & manufacturer's instructions using Leica Peloris & Leica EMTP PPR103 PRH205	
	Tissue Processing	Documented Procedure & Manufacturers Manual for P EX 107 Tissue-Tek Sakura VIP Vacuum Infiltration Processor, PPR115	A
	Tissue embedding	Manual method using documented procedure PPR107, PRH107	
	Tissue sectioning	Manual method using documented procedure PRL104 (Leica Microtome RM 2125 RTS, Leica Microtome RM 2235, Leica RM 2245, Leica Histocore Autocut Rotary Microtome, Histocore Biocut microtome & Tissue-TEK AutoSection Automated Microtome)., PRH504 (Leica Heavy Duty resin Microtome &Leica HistoCore NANOCUT R)	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Routine Histopathology examinations to assist in clinical investigations (cont'd)	In House documented manual methods and manufacturer's instructions	
Tissue samples	Basophilic and eosinophilic structures	Automated Haematoxylin and eosin staining using Dako coverstainer and Leica Histocore Spectra with reference to PRL131	A
	Special staining of Histopathology examinations to assist in detection of clinical abnormalities	In House documented procedure of manual methods using series PSSt 101 – 140PRH401, PRH410, PRH408 and Microscopy	
Tissue samples			А
	Acid Fast Tubercle Bacilli	Zeihl Neelson	
	Basophil/Eosinophol/Neutorph il granules	Giemsa	
	Calcium	Von Kossa	
	Connective tissue/Collagen/Muscle	Masson Trichrome Picro Sirius Red Van Gieson	
	Connective tissue/Collagen/Muscle/Fibrin	Martius Scarlet Blue (MSB)	
	Elastic Fibres	Elastic Haematoxylin & Eosin Elastic Stain	
	General Architecture	Toluidine blue Stain (Resin Sections)	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Special staining of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)	In House documented procedure & manufacturer's instructions using the following (cont'd)	
Tissue samples (cont'd)	Gram +ve & Gram –ve Organisms	Gram Stain	А
	Helicobacter/Micro-organisms	Modified Giemsa	
	Hepatitis B affected Cells/Copper associated protein	Shikata's Orcein	
	Lipid	Oil Red O	
	Mast Cells	Toluidine Blue	
	Melanin/Argentaffin/Chromaffi n/some Lipofuscin	Masson Fontana	
	Mycobacterium Leprae	Wade-Fite	
	Nuclei	Celestin Blue-Haematoxylin	
	pH2.5 Acid Mucins	Alcian Blue (pH2.5)	
	Spirochetes	Warthin Starry	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Special staining of Histopathology examinations to assist in detection of clinical abnormalities	Automated special stains using Dako Artisan Link Pro with reference to PSSt 149	A
Tissue samples (cont'd)	Acid and Neutral Mucins	Alcian Blue ABPAS	
	Amyloid	Congo Red	
	Fungi	Grocott Gomori Methenamine Silver	
	Acid mucopolysaccharides	Hales Colloidal Iron	
	Basement Membranes	Jones Methenamine Sliver	
	Glycogen/Neutral Mucins/Fungi	PAS/ PASD	
	Haemosiderin	Perls Prussian Blue	
	Reticulin Fibres	Gordon & Sweet's Reticulin	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities	In house documented procedures & manufacturer's instructions using Dako Omnissystem – SOP PICC 211-213	
		Using antibodies to and microscopy;-	
Tissue samples & Cell blocks	Embryonic cells in normal tissues and germ tumours	a-1-Fetoprotein	A
	Smooth muscle cells, myoepithelial cells	Actin, smooth muscle	
	Anaplastic Large Cell Lymphoma's (ALCL's)	ALKinase	
	Androgen Receptor positive cells	Androgen Receptor	
	B cells, follicular lymphomas	Bcl-2 (Dako)	
	B cells, lymphomas	Bcl-6 Protein	
	B cells, plasma cells	Bob-1 (C20)	
	Ovarian epithelial malignancies, seminal vesical carcinoma, anaplastic lymphoma	CA125	
	Parafollicular cells in thyroid and medullary thyroid carcinomas	Calcitonin	
	Smooth muscle cells	Caldesmon, Calponin (cell marque)	
	Marker for mesotheliomas	Calretinin	
	Mature B cells, follicular dentritic cells, CALLA	CD10 (CALLA)	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)	In House documented procedure & manufacturer's instructions using the following (cont'd)	
Tissue samples & Cell blocks (cont'd)	Various - mast cells, stem cells, Cajal cells, melanocytes, basal cells (skin) and mammary duct epithelium	CD117	A
	Granulocytes, monocytes and various non- hematopoietic	CD13	
	Plasma cells	CD138	
	Monocytes, macrophages and Langerhans cells	CD14	
	Granulocytes, Reed-Sternberg cells	CD15	
	Monocytes	CD163	
	Langerhans cells	CD1a	
	T cells	CD2, CD3	
	B cell	CD20	
	Mature B cells, Follicular dentritic cell	CD21	
	B cells, some T cell	CD23	
	Reed-Sternberg cells, plasma cells	CD30	
	Endothelial cells	CD31 CD34	
	Myeloid cells	CD33	
	Erythrocytes, leukocytes, glomerular podocytes and follicular dendritic cells	CD35	
	T cells (helper & mature)	CD4	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)	In House documented procedure & manufacturer's instructions using the following (cont'd)	
Tissue samples & Cell blocks (cont'd)	Platelets, megakaryocytes	CD42b	А
	T and B cell Lymphoma's	CD43	
	Leucocytes	CD45	
	T cell (membranous) & BCell (mantel zone of secondary follicle)	CD5	
	Natural killer cells, neuroendocrine tissues	CD56	
	Platelets, megakaryocytes, macrophages, endothelial cells	CD57	
	Macrophages, monocytes, myeloid cells	CD61	
	T cells. Natural killer cells, thymocytes	CD68	
	B cells	CD7	
	T cells	CD79a	
	Wide range of tumours including Ewing's Sarcoma, & T cell lymphoma Intestinal epithelial cells, colorectal + other adenocarcinomas	CD8 CD99 CDX2	
	CEA glycoproteins	CEA	
	Tissues of neuroendocrine origin	Chromagranin A	
	Basal cells, filamentous keratins form glandular to stratified squamous, prostate adenocarcinoma	CK, HMW	



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		Code
Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)	In House documented procedure & manufacturer's instructions using the following (cont'd)	
Expressed in variety tumours	Cyclin D1	А
Pan cytokeratin (broad range)	Cytokeratin, MNF116	
Epithelial cells	Cytokeratin 14	
Epithelial cells including ductal and glandular epithelia	Cytokeratin 19	
Adenocarcinomas, columnar epithelial cells	Cytokeratin 20	
Stratified squamous epithelium, basal cells, mesotheliomas	Cytokeratin 5/6	
Normal and neoplastic epithelia	Cytokeratin 7	
Pan cytokeratin (broad range)	Cytokeratin AE1/AE3	
Epithelial cells	Cytokeratin, Cam 5.2	
Cytomegalovirus	Cytomegalovirus	
Lymphatic vessels	D2-40	
Striated and smooth muscle cells	Desmin	
Gastro Intestinal Stromal tumours (GIST)	DOG-1	
Normal duct epithelial cells, ductal carcinoma	E-Cadherin	
	Histopathology examinations to assist in detection of clinical abnormalities (cont'd) Expressed in variety tumours Pan cytokeratin (broad range) Epithelial cells Epithelial cells including ductal and glandular epithelia Adenocarcinomas, columnar epithelial cells Stratified squamous epithelian cells Stratified squamous epithelian cells Normal and neoplastic epithelia Pan cytokeratin (broad range) Epithelial cells Cytomegalovirus Lymphatic vessels Striated and smooth muscle cells Gastro Intestinal Stromal tumours (GIST) Normal duct epithelial cells,	Histopathology examinations to assist in detection of clinical abnormalities (cont'd)manufacturer's instructions using the following (cont'd)Expressed in variety tumoursCyclin D1Pan cytokeratin (broad range)Cytokeratin, MNF116Epithelial cellsCytokeratin 14Epithelial cells including ductal and glandular epitheliaCytokeratin 19Adenocarcinomas, columnar epithelial cellsCytokeratin 5/6Stratified squamous epitheliaCytokeratin 5/6Stratified squamous epitheliaCytokeratin 7Pan cytokeratin (broad range)Cytokeratin 7Stratified squamous epitheliaCytokeratin 7Pan cytokeratin (broad range)Cytokeratin 7Pan cytokeratin (broad range)Cytokeratin AE1/AE3Epithelial cellsCytokeratin, Cam 5.2CytomegalovirusD2-40Striated and smooth muscle cellsDesminGastro Intestinal Stromal tumours (GIST)DOG-1Normal duct epithelial cells, cellsE-Cadherin



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)	In House documented procedure & manufacturer's instructions using the following (cont'd)	
Tissue samples & Cell blocks (cont'd)	Normal epithelium, over expression in various cancers	EGFR	А
	Normal and neoplastic epithelium	ЕМА	
	Epithelial cells, most adenocarcinomas	EP4	
	Nuclei of cells containing a high level of oestrogen	Estrogen Receptor	
	V.W factor in endothelial cells	Factor XIIIa	
	G Cell hyperplasia	Gastrin	
	Schwann cells, enteric glial cells, astrocytomas, ependymomas	GFAP	
	Erythrocytes	Glycophorin A and Glycophorin C	
	T cell lymphoma's	GMP-17 (TIA-1)	
	Cytotoxic T Lymphocytes, Natural Killer cells	Granzyme B	
	Hairy cell leukaemia's	Hairy Cell Leukaemia	
	Placental trophoblasts	hCG	
	Breast carcinoma's expressing HER-2	HER – 2	
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	Type of test/Properties	Standard specifications/	Location
Materials/Products tested	measured/Range of measurement	Equipment/Techniques used	Code
HUMAN BODY FLUIDS and TISSUES (cont'd)	Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)	In House documented procedure & manufacturer's instructions using the following (cont'd)	
Tissue samples & Cell blocks (cont'd)	B cells, monocytes, macrophages, myeloid/erythroid precursors activated T cells and some epithelial cells	HLA-DR	A
	Melanoma, melanocyte differentiation	HMB45	
	Sex chord stromal tumours	Inhibin, alpha	
	Insulin	Insulin	
	Proliferating Cells	Ki67/p16-MIB-1(Ki67)	
	B cells and plasma cells	Карра	
	B cell follicles	Lambda	
	Melanoma marker	Melan A	
	Colon adenocarcinoma	MLH1	
	Granulocytes and monocytes	МРО	
	Urothelium	MUC-4	
	Lympho-haemopoietic tumours	MUM1	
	Rhabdomyosarcoma	MyoD1 and Myogenin	
	Smooth muscle cells	Myosin (Skeletal Fast)	



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Materials/Products tested Type of test/Properties measure/Range of measurement Standard specifications/ Equipment/Techniques used Location Code HUMAN BODY FLUIDS and TISSUES (cont'd) Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd) In House documented procedure & manufacturer's instructions using the following (cont'd) A Tissue samples & Cell blocks (cont'd) myoepithelial cells Myosin Heavy Chain (Smooth muscle) A Neutrophils Neutrophils Neutrophil Elastase NEF Peripheral nerves, neuroendocrine tumours NSE CC1 2 Germ cell tumours, seminomas OCT 3/4 Pa Various tumours P16 Protein P40 Squamous and Basal Cell Carcinoma's P53 Prostate basal cells, proliferative cells, glandular epithelium P63/CK7 Non-small cell lung carcinoma differentiation P63/CK7 B Cells PAX-5 Neurones and ganglion cells Peripherin				
TISSUES (cont'd)Histopathology examinations to assist in detection of clinical abnormalities (cont'd)manufacturer's instructions using the following (cont'd)Tissue samples & Cell blocks (cont'd)myoepithelial cellsMyosin Heavy Chain (Smooth muscle)ANeutrophilsNeutrophilNeutrophil ElastaseANeuro, endocrine and neuro- endocrine tumoursNFPAPeripheral nerves, neuroendocrine tumoursOct 2B Cell lymphomas, germinal centre derived lymphomasOct 7 3/4Germ cell tumours, seminomasP40Squamous and Basal Cell Carcinoma'sP40Breast, colon, lung and urothelial carcinoma'sP53Prostate basal cells, proliferative cells, glandular epitheliumP63/CK7B CellsPAX-5	Materials/Products tested	-		
blocks (cont'd) Neutrophils Neutrophil Elastase Neuro, endocrine and neuro- endocrine tumours NFP Peripheral nerves, neuroendocrine tumours Oct 2 B Cell lymphomas, germinal centre derived lymphomas Germ cell tumours, Seminomas Various tumours P16 Protein Squamous and Basal Cell Carcinoma's P40 Breast, colon, lung and urothelial carcinoma's P53 Prostate basal cells, proliferative cells, glandular epithelium B Cells PAX-5		Histopathology examinations to assist in detection of clinical	manufacturer's instructions	
Neuro, endocrine and neuro- endocrine tumoursNFPPeripheral nerves, neuroendocrine tumoursNSEB Cell lymphomas, germinal centre derived lymphomasOct 2Germ cell tumours, seminomasOCT 3/4Various tumoursP16 ProteinSquamous and Basal Cell Carcinoma'sP40Breast, colon, lung and urothelial carcinoma'sP53Prostate basal cells, proliferative cells, glandular epitheliumP63Non-small cell lung carcinoma differentiationP63/CK7B CellsPAX-5		myoepithelial cells		A
endocrine tumoursNSEPeripheral nerves, neuroendocrine tumoursNSEB Cell lymphomas, germinal centre derived lymphomasOct 2Germ cell tumours, seminomasOCT 3/4Various tumoursP16 ProteinSquamous and Basal Cell Carcinoma'sP40Breast, colon, lung and urothelial carcinoma'sP53Prostate basal cells, proliferative cells, glandular ejitheliumP63Non-small cell lung carcinomaP63/CK7B CellsPAX-5		Neutrophils	Neutrophil Elastase	
neuroendocrine tumoursOct 2B Cell lymphomas, germinal centre derived lymphomasOct 7/4Germ cell tumours, seminomasOCT 3/4Various tumoursP16 ProteinSquamous and Basal Cell Carcinoma'sP40Breast, colon, lung and urothelial carcinoma'sP53Prostate basal cells, proliferative cells, glandular epitheliumP63Non-small cell lung carcinoma differentiationP63/CK7B CellsPAX-5			NFP	
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Squamous and Basal Cell Carcinoma'sP40Breast, colon, lung and urothelial carcinoma'sP53Prostate basal cells, proliferative cells, glandular epitheliumP63Non-small cell lung carcinoma differentiationP63/CK7B CellsPAX-5			OCT 3/4	
Carcinoma'sPf3Breast, colon, lung and urothelial carcinoma'sP53Prostate basal cells, proliferative cells, glandular epitheliumP63Non-small cell lung carcinoma differentiationP63/CK7B CellsPAX-5		Various tumours	P16 Protein	
urothelial carcinoma'sPfostate basal cells, proliferative cells, glandular epitheliumPfosiNon-small cell lung carcinoma differentiationPfosi/CK7B CellsPAX-5			P40	
proliferative cells, glandular epitheliumP63/CK7Non-small cell lung carcinoma differentiationP63/CK7B CellsPAX-5			P53	
differentiation B Cells PAX-5		proliferative cells, glandular	P63	
			P63/CK7	
Neurones and ganglion cells Peripherin		B Cells	PAX-5	
		Neurones and ganglion cells	Peripherin	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)	In House documented procedure & manufacturer's instructions using the following (cont'd)	
Tissue samples & Cell blocks (cont'd)	Neurones and neuro- endocrine cells	PGP9.5	A
	Germ cell tumours, seminomas	Plac Alk Phos	
	Colon adenocarcinoma	PMS2	
	Nuclei of cells showing expression of Progesterone	Progesterone	
	Metastatic prostatic tumours	Pros Acid Phos	
	Prostate secretory and ductal epithelium	PSA poly	
	Prostate adenocarcinoma	Racemace	
	High Grade PIN Schwann cells, nerve processes, S100 +ve neoplasms	S-100	
	Simian Virus 40	SV40	
	Neuroendocrine cells	Synaptophysin	
	Lung adenocarcinoma T & B Lymphocytes,	TAG-72	
	Leukaemias, acute lymphocytic lymphomas	TdT	
	Thyroglobulin containing cells	Thyroglobulin	
	TTF-1 found in lung and thyroid (thyroid follicular cells)	TTF-1	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)	In House documented procedure & manufacturer's instructions using the following (cont'd)	
Tissue samples & Cell blocks (cont'd)	Small cell differentiation in Lung cancer	TTF-1/CK5/6	A
	Cells of mesenchymal origin Epithelial cells and smooth muscle in fallopian tube.	Vimentin	
	Wilms' tumour	Wilms' Tumour (WT1)	
	Epstein Barr Encoded RNA expressing cells	EBER ISH	
	Complement C4d in allograft rejection	C4d	
	Myeloid cells	CD33	
		In house documented procedures & manufacturer's instructions using Roche Ventana Benchmark XT system – SOP PICC 201-209 Using antibodies to and microscopy;-	
	Non-small Cell Lung Carcinoma's (NSCLC)	Lung ALK	
	Non-small-cell Lung Carcinoma (NSCLC)	ROS-1	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)	In House documented procedure & manufacturer's instructions using the following (cont'd)		
FFPE Lung tissue	Non-small cell lung carcinoma differentiation	PD-L1 via the DAKO AS 48 autostainer using SOP: PBioR 405	A	
Acetone fixed Fresh Skin and Renal tissue	Immunoglobulins and complement factors	Immunofluorescent detection of IgA, IgG, IgM, C3 via the Roche Ventana Benchmark XT system using SOP: PICC 210	А	
END				