


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>8681</b> <b>Accredited to ISO 15189:2022</b>	<b>NHS Tayside</b>  <b>Issue No: 013 Issue date: 24 June 2025</b>	
	<b>Blood Sciences Dep't Level 7 Ninewells Hospital Dundee DD1 9SY</b>	<b>Contact: Alisson McPherson Tel: +44 (0)1382 660111 ext. 36718 E-Mail: <a href="mailto:alisson.mcpherson@nhs.scot">alisson.mcpherson@nhs.scot</a> Website: <a href="http://www.nhstayside.scot.nhs.uk">http://www.nhstayside.scot.nhs.uk</a></b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> NHS Tayside Blood Sciences Level 7 Ninewells Hospital (NW) Dundee DD1 9SY  <b>Local contact:</b> Alisson McPherson Tel: 01382 660111 ext:36718 Email: <a href="mailto:alisson.mcpherson@nhs.scot">alisson.mcpherson@nhs.scot</a>	Core Biochemistry Special Biochemistry Core Haematology Special Haematology Immunology	A
<b>Address</b> Department of Blood Sciences Perth Royal Infirmary (PRI) Perth PH1 1NX  <b>Local Contact:</b> Paula King Tel: 01382 660111 ext: 55663 or 13400 Email: <a href="mailto:Paula.king5@nhs.scot">Paula.king5@nhs.scot</a>	Core Biochemistry Core Haematology Blood Transfusion	B
<b>Address</b> Scottish Bowel Screening Programme Laboratory Blood Sciences Level 7 Ninewells Hospital (NW) Dundee DD1 9SY  <b>Local Contact:</b> Catriona Anderson Tel: 01382 660111 ext 32579 Email: <a href="mailto:Catriona.anderson@nhs.scot">Catriona.anderson@nhs.scot</a>	Scottish Bowel Screening Service	A



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**Site activities performed away from the locations listed above:**

Location details	Activity	Location code
Blood Transfusion Laboratory Department of Blood Sciences Perth Royal Infirmary (PRI) Perth PH1 1NX  <b>Local Contact:</b> Pamela Smith Tel: 01738 473338 ext 13338 Email: Pamela.smith31@nhs.scot	Blood Stock refrigerator	B
Blood Transfusion Laboratory Department of Blood Sciences Perth Royal Infirmary (PRI) Perth PH1 1NX  <b>Local Contact:</b> Pamela Smith Tel: 01738 473338 ext 13338 Email: Pamela.smith31@nhs.scot	Blood Issue refrigerator	B
Haematology/Oncology Unit Perth Royal Infirmary (PRI) Perth PH1 1NX  <b>Local Contact:</b> Layna Heller Tel: 01738 473338 Email: layna.heller@nhs.net	Blood Stock refrigerator	B
Phlebotomy  <b>Local Contact:</b> Alisson McPherson Tel: 01382 660111 ext 33075 Email: alisson.mcpherson@nhs.scot	Venepuncture (not Paediatric)	A



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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	Blood Transfusion examination activities for the purpose of clinical diagnosis'	Documented In-house methods using:	
Venous Blood; red cells	Blood Grouping <ul style="list-style-type: none"> <li>• A B O</li> <li>• Rh D</li> </ul>	BioRad iH500 analyser and associated testing protocols – fully automated BioRad cassette technology. Manual procedures by test tube technology-red cell agglutination, macroscopic visual detection. SOP: TRAN 109	B
	Antibody Detection and Identification	BioRad iH500 analyser and associated testing protocols – fully automated BioRad cassette technology using Antibody Screen-3 cell panel and Antibody Identification 11 cell panel Manual procedure BioRad cassette technology, macroscopic visual detection and Antibody Screen-3 cell panel, and Antibody Identification 11 cell panel SOP: TRAN 17	B
Venous Blood; red cells	Red Cell Phenotyping <ul style="list-style-type: none"> <li>• Anti-A</li> <li>• Anti-B</li> <li>• Rh               <ul style="list-style-type: none"> <li>○ Cc</li> <li>○ D</li> <li>○ Ee</li> </ul> </li> <li>• Kell</li> <li>• Duffy a and b</li> <li>• Kidd a and b</li> <li>• MNSs</li> </ul>	Manual methods and SOP TRAN 19	B
Venous Blood; red cells	Electronic Issue	BioRad iH500 analyser, Traceline, Proteus LIMS and SOP TRAN 11 and TRAN 109	B
Venous blood; plasma	Compatibility testing of patients plasma with donor cells	Manual procedure BioRad cassette technology, macroscopic visual detection and SOP TRAN 11	B



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Haematology</u> examination activities for the purpose of clinical diagnosis'	Documented In-house methods using:	
Whole blood: EDTA	FBC <ul style="list-style-type: none"> <li>• Haemoglobin estimation</li> <li>• Red cell and platelet counts</li> <li>• Haematocrit</li> <li>• Differential white cell count</li> <li>• Reticulocyte</li> <li>• MCV</li> <li>• MCH</li> <li>• MCHC</li> </ul>	ADVIA 2120i series Haematology and SOP's CORE 6  Colorimetric  Laser light scatter  Calculated parameter from MCV and RBC  Laser and light scatter and light absorbance  Laser light scatter and absorbance  Calculated parameters  Calculated parameters  Calculated parameters	A, B
Whole blood :EDTA,	Film selection and Preparation	SOP CORE 10- validation/selection Advia Autoslide maker (MGG) SOP CORE 25 Modified Wright's blood smears by Hematek SOP SPEC 51	A, B A A, B
	Film reporting WBC Differential	SOP CORE 8 SOPCORE 21	A, B A, B
Whole Blood EDTA	<u>Hb Screening</u> <u>HbA</u> <u>HbA2</u> <u>HbF</u> <u>HbS</u> <u>HbC</u> <u>HbD</u> <u>HbE</u> <u>HbF</u> <u>Beta Thalassaemia</u>	Sebia Capillary 3 Octa analyser using Electrophoresis SPEC 63.12	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Haematology</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Bone Marrow	<u>Bone marrow reporting of normal and abnormal morphologies</u>	May Grunwald/Giemsa staining SPEC 31 Siemens Hematek staining machine- SPEC 51 and Perls Prussian blue SPEC 31 and microscopy	A, B
Whole blood :EDTA	Malaria Parasite detection <ul style="list-style-type: none"> <li>• P.falciparum</li> <li>• P.vivax</li> <li>• P.ovale</li> <li>• P.malariae</li> <li>• P knowlesi</li> </ul>	Giemsa stain, Clinitech rapid field stain and microscopy- SOP CORE 41, CORE 42	A, B
Whole blood :EDTA	Plasma Viscosity	Benson BV 200 analyser Detected by flow resistance SOP CORE 43	A
Whole Blood: Citrated	Blood Coagulation <ul style="list-style-type: none"> <li>• Prothrombin time <ul style="list-style-type: none"> <li>○ INR</li> </ul> </li> <li>• Activated Partial Thromboplastin Time</li> <li>• Fibrinogen estimation Clauss method</li> <li>• Thrombin Time including correction with protaminsulphate</li> <li>• 50/50 mixing studies</li> </ul>	ACL TOP 350 (B) /550 (A)/ 750 (A)	
		Turbidimetric method Clot detection by optical rate of change of absorbance end point being the maximum rate of change SOP COAG 87	A, B
		Turbidimetric method SOP COAG 88	A, B
		Turbidimetric method SOP COAG 74	A, B
		Turbidimetric method SOP COAG 75	A, B
		Turbidimetric method SOP COAG 80	A, B
	Actin FS		A, B



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Whole Blood: Citrated (cont'd)	Blood Coagulation (cont'd)	ACL TOP 300 (B) /550 (A)/ 750 (A)	
	<ul style="list-style-type: none"> <li>D-Dimers</li> </ul>	Latex immunoassay SOP COAG 77	A, B
	<ul style="list-style-type: none"> <li>Anti Xa</li> </ul>	UFH Anti-Xa assay SOP COAG 91	A
	Factor assay <ul style="list-style-type: none"> <li>II</li> <li>V</li> <li>VII</li> <li>X</li> </ul>	Turbidometric method. Extrinsic Factors SOP COAG 90	A
	<ul style="list-style-type: none"> <li>VIII</li> <li>IX</li> <li>XI</li> <li>XII</li> </ul>	Intrinsic Factors SOP COAG 89	A
	<ul style="list-style-type: none"> <li>Refacto AF Factor VIII</li> </ul>	Turbidimetric method SOP COAG 98	A
	<ul style="list-style-type: none"> <li>FVIII Inhibitor assay</li> <li>FIX Inhibitor assay</li> </ul>	Turbidimetric method SOP COAG 27	A
	DRVVT Screen and Confirm	Turbidimetric method SOP COAG 93	A
Whole Blood Citrated	Factor XIII	Werfen Factor XIII kit Quantitative antigenic Method SOP COAG	A
	Factor VIII	Werfen Chromogenix Coamatic FVIII kit- chromogenic assay SOP COAG 36	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Haematology</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Whole Blood: Citrated (cont'd)	Blood Coagulation (cont'd)	ACL TOP 300 (B)/550 (A)/ 750 (A)	
	Antithrombin	Chromogenic Assay SOP COAG 94	A
	Protein C	Chromogenic Assay SOP COAG 95	A
	Protein S	Immunoturbidimetric SOP COAG 96	A
	von Willebrand screen von Willebrand antigen assay	Immunoturbidimetric SOP COAG 97	A
	Ristocetin Co-Factor assay	Immunoturbidimetric SOP COAG 98	A
	Haemoglobin S	Detection of decreased solubility of haemoglobin S with Microgen S test SOP SPEC 55	A
	<u>Haematological Malignancies</u> examination activities for the purpose of clinical diagnosis	Documented In-house methods using:	
Whole Blood (EDTA)	Paroxysmal Nocturnal Haemoglobinuria (PNH)	Becton Dickinson Canto II Flow Cytometry via Multicolour Flow analysis using SOP TC 55	A
Whole Blood (EDTA), Bone Marrow (EDTA), Peripheral Blood Stem Cell Harvest product	Stem Cell Markers (CD34)	In concordance with ISHAGE guidelines Becton Dickinson Canto II Flow Cytometry-single platform multi colour flow analysis and SOP TC 56	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Haematological Malignancies</u> examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	
Whole Blood (EDTA), Bone Marrow (EDTA), CSF, Ascitic fluids, Pleural fluids	Chronic Leukaemia Panel <ul style="list-style-type: none"> <li>• Tube 1 – Lymphocyte screen</li> <li>• Tube 2 – B cell screen</li> <li>• Tube 3 – Hairy cell markers</li> <li>• Tube 4 Additional B&amp;T cell markers</li> </ul>	Becton Dickinson Canto II Flow Cytometry via Multi colour flow analysis using SOP TC 57	A
	Acute Leukaemia Panel	Becton Dickinson Canto II Flow Cytometry Dual colour analysis via Fluorochromes FITC & PE using SOP 62	A
	<u>Chemistry</u> examination activities for the purpose of clinical diagnosis'	Documented In-house methods using:	
Serum/Plasma/Urine	Chloride Potassium Sodium	Siemens Atellica CH930 and TCORE SOPs -Detected by Potentiometry	A, B
Serum/Plasma/Urine	Calcium Creatinine Magnesium Phosphate Uric Acid Urea	Siemens Atellica CH930 and TCORE SOPs -Detected by Spectrophotometry	A, B
Urine/CSF Plasma	Protein Ammonium Lactate Ethanol		A A
Plasma/CSF	Glucose		
Urine	Micro Albumin Amylase		A





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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Chemistry</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Serum/Plasma	Albumin Alkaline Phosphatase ALT Amylase AST Bicarbonate Bile Acids Cholesterol C-Reactive Protein Creatine Kinase Direct Bilirubin GGT HDL-Cholesterol Iron Lactate Dehydrogenase Lithium Methotrexate Paracetamol SACE Salicylate Total Bilirubin Total Protein Transferrin Triglycerides	Siemens Atellica CH930 using TCORE SOPs - Detected by Spectrophotometry	A,B
Serum/Plasma	Carbamazepine Gentamicin Phenytoin Theophylline Tobramycin Valproate Vancomycin Phenobarbitone Alpha 1 Antitrypsin Haptoglobin	Siemens Atellica CH930 and TCORE SOPs - Detected by Turbidimetry	A,B
CSF, Serum. Plasma	C3 C4 Beta 2 Microglobulin	Siemens Atellica Nephelometer 630 and SOP IPRO1 - Detected by Nephelometry	A
Serum		SOP IAIM 30	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Chemistry</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Serum	Alphafetoprotein CA125 CA153 CA199 CEA Digoxin Ferritin Hyaluronic acid Prolactin P3NP Cortisol FSH LH Progesterone Testosterone Folate	Siemens Atellica IM 1600 Chemiluminescence using TCORE SOPS	A
Serum Plasma	NT-proBNP Parathyroid Hormone Procalcitonin SHBG HS Troponin1 TIMP I TSHFree T3 Free T4 Oestradiol Vitamin B12		
Serum plasma	Free T4 HS Troponin 1 TSH PSA PTH Vitamin B12 Folate	Siemens Atellica IM1300 detected by chemiluminescence using TCORE SOPs	B



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Serum/Plasma/Urine	Osmolality	Advanced Instruments Model OSMO 1and SOP NCORE 125 - Detected by freezing point depression	A, B
Serum/Plasma	Potassium Sodium	Roche AVL 9180 Electrolyte Analyser and SOP NCORE 9, NNPT 42, PCORE 46 – Detected by Direct ISE Potentiometry	A, B
Whole blood	HbA1C	Menarini Hb NEXT and SOP NNPT 52, Detected by HPLC	A,



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Serum/Plasma	Chemistry- Immunoassay  ACTH Anti-thyroglobulin Erythropoietin Growth Hormone Insulin Thyroglobulin	Immulite 2000 XPi detected by chemiluminescence using SOP NSPECIMM 32, 39	A
Serum/Urine	Bence Jones Proteins Serum Immunofixation Urine Immunofixation Oligoclonal bands	Sebia Hydrasys Electrophoresis and SOP NSPECPRO 7,19,20, 21	A
Serum	Serum Protein Electrophoresis Immunophenotyping	Sebia Capillarys Capillary Zone Electrophoresis and SOP NSPECPRO 32	A



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Urine	GCMS Confirmation Methadone, Opiates, Benzodiazapine, Amphetamines, Cocaine Barbiturates Buprenorphines Gabapentin Pregabalin	Thermoscientific Q Exactive Focus Transend 2 HRAM by high resolution accurate Mass Spectrometry  SOP NSPECTOX 87	A
	UMETS <ul style="list-style-type: none"> <li>• normetadrenaline,</li> <li>• metadrenaline</li> <li>• 3-methoxytyramine</li> </ul>	Thermo Fisher TSQ Altis LCMS SOP NALTIS 3	A
Whole Blood (k-EDTA)	Ciclosporin Tacrolimus	Thermo Fisher TSQ Altis LCMS SOP NALTIS 5	A
Whole Blood	pH Hydrogen ion pCO2 pO2 Actual Biocarbonate Base Excess Oxygen Saturation COHb	Siemens Rapidpoint 500e BGA performed by potentiometry using TNPT 20	A, B



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Chemistry</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
CSF	Xanthochromia	Northstar Bio UV Spectrophotometry Extraction/spectrophotometric kit method and SOP TSPECPRO1	A
	<u>Calculated Tests</u> <ul style="list-style-type: none"> <li>• Albumin/creatinine ratio</li> <li>• Protein/creatinine ratio</li> <li>• Chol/HDL ratio</li> <li>• LDL-cholesterol</li> <li>• % saturation of transferrin</li> <li>• Free androgen index</li> <li>• Calculated free testosterone</li> <li>• iLFT</li> <li>• AKI</li> <li>• eGFR/CKD stage</li> <li>• Adjusted calcium</li> <li>• Calcium excretion index</li> <li>• Creatinine clearance</li> <li>• ELF</li> </ul>		A
Faeces	Antibodies to Human Globulin Qualitative Faecal Immunochemical test (QFIT)	HM JACKarc analyser, detected by latex agglutination	A
	Detection and quantitation	Symptomatic NSPEC MET 10	
	Detection	<u>Scottish Bowel Screening</u> SBSL 32	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)  Blood (Serum)	<u>Immunology</u> examination activities for the purpose of clinical diagnosis'  Allergy Total IgE- Allergen Specific IgE Specific IgG Component testing Tryptase	Documented In-house methods using:  Phadia ImmunoCAP 250 FEIA by fluorescence detection of strength of antibody/antigen reactions IALL01 IALL02 IALL03 IALL04	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Immunology</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Blood (Serum)	Autoantibodies to: <ul style="list-style-type: none"> <li>• Cardiolipin IgG/IgM</li> <li>• CCP</li> <li>• CTD Screen</li> <li>• IgG/IgM <math>\beta</math>2 glycoproteins</li> <li>• IgM RF</li> <li>• dsDNA</li> <li>• ENAs <ul style="list-style-type: none"> <li>○ CenpB</li> <li>○ Jo-1</li> <li>○ La</li> <li>○ polymerase 3RNA</li> <li>○ Fibrillarin IgG</li> <li>○ Ro 52</li> <li>○ Ro 60</li> <li>○ U1RNP</li> <li>○ Scl-70</li> <li>○ Sm</li> <li>○ Ribosomal P</li> </ul> </li> <li>• GBM</li> <li>• MPO</li> <li>• PR3</li> <li>• IgG TTG</li> <li>• IgA TTG</li> <li>• Thyroid Peroxidase</li> <li>•</li> </ul>	Phadia ImmunoCAP 250 by fluorescence detection of strength of antibody/antigen reactions using ELIA kits IAIM011 IAIM018  IAIM017  IAIM015   IAIM08 IAIM02  IAIM016  IAIM012	A





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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Immunology</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Serum	<p>Extended liver autoantibodies- AMA M2, M2-3E, Sp100, PML, gp210, LKM-1, LC-1, SLA/LP, Ro52</p> <p>Myositis panel-Mi2a, Mi2b, TIF1GAMMA, MDA5, NXP2, SEA1, Ku, PM-Scl-100, PM-Scl-75, Jo-1, SRP, PL-7, PL-12, EJ, OJ, RO52, cN-1A</p> <p>Scleroderma panel- Scl-70, CENPA, CENPB, RP11, RP155, fibrillarin, NOR90, Th/To, PMScl-100, PMScl-75, Ku, PDGFR, Ro-52</p> <p>ANA antibodies panel – Anti-RNP, Sm, RNP-70, RNP-A, RNP-C, SSA, Ro52, SSB, Scl70, PMScl, Jo-1, Cenp B, PCNA, dsDNA, Nucleosomes, Histones, Rib P protein, DFS70</p> <p>Neuronal Paraneoplastic panel- amphiphysin, CV2, PNMA2 (Ma2Ta), Ri, Yo, Hu, Recoverin, Titin, Zic4, SOX1, GAD65, Tr.</p> <p>Tetanus toxoid</p>	<p>EuroImmuno- Euroblot One Immunoblotting- flat bed scanner and Euroline Software analysis detected by optical detection. SOP IAIM 15, 25 and 10</p> <p>Manual- Binding Site Ltd ELISA Colourmetric detection system</p> <p>IAIM028</p>	<p>A</p> <p>A</p>



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**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**NHS Tayside**

**Issue No: 013 Issue date: 24 June 2025**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Immunology</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Whole Blood (EDTA)	Cellular Immunity Lymphocyte phenotyping;- <ul style="list-style-type: none"> <li>CD19</li> <li>CD56+16</li> </ul> B cell maturation markers  Neutrophil respiratory burst	Becton Dickinson FACS Canto II plus SPA III and MDMS Flow Cytometry system with enumeration of lymphocytes.  ICELL01  ICELL04  Glycotrope phagoburst kit ICELL05	A
Whole Blood (lithium heparin)	IGRA QuantiFERON	Manual- QIAGEN :- QuantiFERON Gold in Tube. ICELL07	A
Serum	PLA2R	Euroimmune ELISA SOP IAIM 29	A



8681  
Accredited to  
ISO 15189:2022

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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Immunology</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	A
Plasma and serum	Immunofluorescence-Antibodies to;  <ul style="list-style-type: none"><li>• Adrenal</li><li>• ANA</li><li>• AMA</li><li>• ANCA</li><li>• Endomysial (IgA)</li><li>• GPC</li><li>• LKM</li><li>• Neuronal (paraneoplastic)</li><li>• Skins</li><li>• ASM</li><li>• Anti dsDNA Crithidia</li></ul>	Quantalyser staining platform Or Manual staining assay with Quantalink bidirectional requesting/results system with microscopic detection of fluorescent patterns. IAIM07 IAIM01 IAIM 015 IAIM025 IAIM02 IAIM016  IAIM06 IAIM 25 IAIM010  IAIM09 IAIM 25	
END			