


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL</p> <p>9042</p> <p>Accredited to ISO 15189:2012</p>	<p>NHS Lanarkshire</p> <p>Issue No: 003 Issue date: 26 April 2019</p>	
	<p>NHS Lanarkshire Head Quarters Kirklands Hospital Fallside Road Bothwell G71 8BB</p>	<p>Contact: Kirsty Taggart Tel: +44 (0)1698 366216 E-Mail: kirsty.taggart@Lanarkshire.scot.nhs.uk Website: http://firstport2/Pages/home.aspx</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Department of Haematology Monklands Hospital Monkscourt Avenue Airdrie ML6 0JS</p> <p>Local contact Dr Iain Singer 01236 713164</p>	Haematology/Blood Transfusion	A
<p>Department of Haematology Hairmyres Hospital Eaglesham Road East Kilbride Glasgow G75 8RG</p> <p>Local contact Dr Iain Singer 01236 713164</p>	Haematology/Blood Transfusion	B
<p>Department of Haematology Wishaw Hospital 50 Netherton Street Wishaw ML2 0DP</p> <p>Local contact Dr Iain Singer 01236 713164</p>	Haematology/ Blood Transfusion / Immunology	C



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Site activities performed away from the locations listed above:

Location details	Activity
Blood Fridge Theatre Monklands Hospital Local contact Kirsty Taggart 01698 366216	Blood storage only Fridge managed by laboratory
Blood Fridge Theatre Hairmyres Hospital Local contact Kirsty Taggart01698 366216	Blood storage only Fridge managed by laboratory
Blood Fridge Maternity theatre Wishaw Hospital Local contact Kirsty Taggart01698 366216	Blood storage only Fridge managed by laboratory



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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	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis	
Venous whole blood EDTA	Full blood count: <ul style="list-style-type: none"> • Haemoglobin estimation • Red cell and platelet counts • Haematocrit • Nucleated red cell counts • Differential white cell count and reticulocytes • MCV • MCH • MCHC 	Sysmex XN Flow cytometry and electrical impedance LP-1420 LP-1595 By calculation “ “	A, B, C
Venous whole blood EDTA/Serum/plasma	Detection of infectious mononucleosis heterophile antibodies	Clearview IM II card agglutination interpreted by visual inspection LP-1687	A, B, C
Venous whole blood EDTA	Detection of decreased solubility of Hb S	Using the Sickledex kit LP-150	A, B, C
Venous whole blood EDTA	HbA1c	Ion exchange high performance liquid chromatography using Tosoh G8 LP-1501 LP-1519	A, B, C



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis.</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis	
Venous whole blood EDTA	Erythrocyte sedimentation rate	Modified Westergren technique using automated photometric detection on Starrsed Inversa LP-1601 LP-1722	A, B
		Modified Westergren technique using automated photometric detection on Starrsed Interliner LP-1537 LP-1722	C
		Manual Westergren technique using visual detection of sedimentation interface LP-1722	C
Venous whole blood EDTA	Detection and quantification of HbA2 and HbF as part of B-thalassaemia screening	Column chromatography using Tosoh G8 LP-161 LP-165	B, C
Venous whole blood EDTA	Abnormal haemoglobin detection and quantification of Haemoglobin C/D/E/S	Column chromatography using Tosoh G8 Semi-automated electrophoresis using Sebia Hydrasys LP-1038 LP-1598	C B



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis.</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis	
Venous whole blood: EDTA	Screening for the detection of Plasmodium falciparum and Plasmodium spp. (Including: <ul style="list-style-type: none"> • Plasmodium ovale • Plasmodium falciparum • Plasmodium malariae • Plasmodium vivax) 	Binax Now Immunological Malaria antigen kit LP-1560	A, B, C
	Detection and Identification of Plasmodium species: <ul style="list-style-type: none"> • P.falciparum • P.vivax • P.ovale • P.malariae • P knowlesi 	Thin Film – Giemsa pH7.2 stain Examined by microscopy for malarial parasites. LP-217	A, B, C
		Thick film field stain LP-217	C
Venous whole blood EDTA	Blood film reporting of normal and abnormal morphologies including white blood cell differential.	Semi automated staining method: Modified May Grunwald Giemsa on Sysmex RAL stainer LP-1587 LP-1645	A, B
		Automated staining method: May-Grunwald Giemsa on SP10 LP-1543 LP-1645	C



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis.</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis	
Bone Marrow aspirate	Detection of normal and abnormal morphologies	Semi automated staining method: Modified May Grunwald Giemsa on Sysmex RAL stainer LP-1587 LP-1645	A, B
		Automated staining method: May-Grunwald Giemsa on SP10 LP-1543 LP-1645	C
Bone Marrow aspirate and stained trephine slides	Detection of normal and abnormal morphologies	Reporting: LP-781 LP-1587 LP-1543	A, B, C
Venous blood: citrated	Coagulation studies: <ul style="list-style-type: none"> • Prothrombin time • Activated partial thromboplastin time • Fibrinogen level • PTT Mixes • INR • Thrombin time • Protamine Sulphate • D Dimer 	Sysmex CS2100 using optical density measurement LP-105 LP-332 LP-1728 LP-190	A, B
		LP-1106	A only
		Sysmex CS5100 using optical density immunoassay LP-105 LP-332 LP-1652 LP-190	C



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Venous blood: citrated</p>	<p><u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p>Specialist coagulation studies:</p> <ul style="list-style-type: none"> • Anti-thrombin 3 • Lupus • Anticoagulant LA1 and LA2 • Protein C • Free protein S • APC • Factor assays: VIII, IX, XI, XII, II, V, VII, X, • Von Willebrands activity and antigen 	<p>Documented in-house procedures in conjunction with manufacturer's instructions for analysis</p> <p>Systemex CS5100 using optical density and chromogenic assays</p> <p>LP-210 LP-206 LP-193</p>	<p align="center">C</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Blood transfusion examination activities for the purpose of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis	
Venous blood EDTA,	Blood grouping by antigen detection. A, B, O groups. Rhesus group antigens: Cw, C, c, D, E, e	Automated method: Ortho Vision BT analyser using SOP's LP-1746, LP-1747, LP-1749 & LP-1785 Manual method: Biovue cassette technology	
	Kell blood grouping system antigens: K, k, Kpa	LP832 LP34 LP35	A
	Kidd blood grouping system antigens: Jka, Jkb	LP654 LP653 LP657 LP319 LP228	C
	Duffy blood grouping system antigens: Fya, Fyb	LP1309 LP1291 LP1367 LP1310	B
	Lutheran blood grouping system antigens: Lua		
	MNS blood grouping system antigens: M, N, S, s		
	Lewis blood grouping system antigens: Lea, Leb		
	P blood grouping system antigen: Anti-P1		



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HUMAN BODY FLUIDS (cont'd)	<u>Blood transfusion examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis	
Whole blood EDTA plasma	Crossmatch of patient plasma with donor cells	Manual method: Ortho Bioview cassette technology. LP218 LP35 LP846 Automated method: Ortho Vision BT analyser using SOP's LP-1746, LP-1747, LP-1749 & LP-1785 Manual method: Biorad cassette technology LP1369 LP1308	A, C B
Whole blood EDTA	Kleihauer test for foetal/maternal bleed estimation	Bioscience kit Acid elution method LP350	C
	<u>Flow cytometry examination activities for the purpose of clinical diagnosis</u>	Beckman Coulter Navios Flow Cytometry enumeration of cells	A
Venous whole blood EDTA	Lymphocyte Subsets: CD3 and CD19 percentage. CD4 and CD8 percentage and absolute number.	LP-1130 LP-1689 LP-1690 LP-1701 LP-1724 LP-1124 LP-1215	A



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HUMAN BODY FLUIDS (cont'd)	<u>Flow cytometry examination activities for the purpose of clinical diagnosis.</u> (cont'd)	Beckman Coulter Navios Flow Cytometry enumeration of cells (cont'd)	
Venous whole blood EDTA	Leukaemia/lymphoma panel for chronic disease:	LP-1724 LP-1701 LP-1700	A
Bone marrow in EDTA	Percentages of CD14, CD79a, CD5, CD38, CD2, CD19, CD45, CD20, FMC7, CD10, CD23, CD3, HLA DR, CD57, CD16, CD8, CD56 and CD4.	LP-1699 LP-1690 LP-1119 LP-1124 LP-1689 LP-1215 LP-1736	
CSF			
Venous whole blood EDTA	Leukaemia/lymphoma panel for acute disease:	LP-1724 LP-1701 LP-1700	A
Bone marrow in EDTA	Percentages of CD7, CD15, CD13, CD117, CD33, CD34, CD45, CD14, CD64, HLA DR, CD38, CD10, CD19, CD2 and CD20	LP-1699 LP-1690 LP-1119 LP-1124 LP-1689 LP-1215 LP-1736	
CSF			
Venous whole blood EDTA	Paroxysmal Nocturnal Haemoglobinurea (PNH) screen: Type I, type II and type III red cell clone percentage by using CD59 and CD235a. Granulocyte type III clone percentage by using CD24, CD15 and Flaer. Monocyte type III clone percentage by using CD14, CD33 and Flaer.	LP-1724 LP-1415 LP-1124 LP-1215	A



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis by indirect immunofluorescence using Werfen/ IL Quanta Lyser 160 UV microscope, Quanta-lyser 2, Inova Novaview slide reader	
Serum	ANCA screen and titre	LP-1640	C
Serum	ANA screen and titre	LP-1634	C
Serum	Parietal cell antibody	LP-1643	C
Serum	Smooth muscle/mitochondrial antibody	LP-1643	C
Serum	Liver kidney microsomal antibody	LP-1643	C
Serum	Anti-Ds DNA Crithidia	LP-1639	C
		Documented in-house procedures in conjunction with manufacturer's instructions for analysis by ELISA using Werfen/ IL Quanta Lyser 160 UV microscope, Quanta-lyser 2, Inova Novaview slide reader	
Serum	ENA screen and profiles	LP-1593 LP-1641	C
Serum	Anti cardiolipin antibody	LP-1546	C
Serum	Anti-DNA antibody	LP-1591	C
Serum	Intrinsic factor antibody	LP-1547	C



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis.</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Immucap Phadia 250 by fluorescence detection of strength of antibody/antigen reactions	
Serum	Anti-MPO/PR3	LP-1589	C
Serum	Cyclic Citrullinated Peptide antibody (CCP)	LP-1590	C
Serum	Glomerular basement membrane (GBM) antibody	LP-1589	C
Serum	Total IgE	LP-1594	C
Serum	Specific IgE to the following allergens: Almond Amoxycillin Ampicillin Apple Aspergillus fumigatus Banana Barley Blue mussel Brazil nut Buckwheat Cacao Carrot Cashew Cat epithelium Cheese (cheddar) Chicken meat Coconut Cod fish Cow dander Dog dander Egg white Egg yolk Feathers (caged mix) Gluten	LP-1594	C



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis.</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Immucap Phadia 250 by fluorescence detection of strength of antibody/antigen reactions (cont'd)	
Serum (cont'd)	Specific IgE to the following allergens: (cont'd) Grass pollen mix Guinea pig Hamster Hazel nut Horse dander House dust mite Kiwifruit Latex Lemon Lentil Maize Melon Milk Mould mix Mouse Oat Orange Pea Peach Peanut Pear Penicillin G Penicillin V Pineapple Pistachio Potato Rabbit epithelium Rat epithelium Rice Rye Salmon Sesame seed Sheep epithelium Shrimp	LP-1594	C



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis.</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Immucap Phadia 250 by fluorescence detection of strength of antibody/antigen reactions (cont'd)	
Serum (cont'd)	Specific IgE to the following allergens: (cont'd) Soya bean Strawberry Tomato Tree pollen mix Tuna fish Walnut Wheat	LP-1594	C
END			