


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>Accredited to ISO 15189:2022</b>	<b>NHS Blood and Transplant</b>	
	<b>Issue No:</b> 006 <b>Issue date:</b> 22 July 2025	
	<b>International Blood Group Reference Laboratory 500 North Filton Park Filton Bristol BS34 7QH</b>	<b>Contact: Nicole Thornton Tel: +44 (0) 117 9217586 E-Mail: <a href="mailto:nicole.thornton@nhsbt.nhs.uk">nicole.thornton@nhsbt.nhs.uk</a> Website: <a href="http://www.nhsbt.nhs.uk">www.nhsbt.nhs.uk</a></b>
<b>Testing performed at the above address only</b>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUE AND FLUIDS	Red Cell Immunohaematology investigations for the purpose of clinical diagnosis	Manufacturer's instructions for: Medion Cell washers, ECHOtherm incubators, Diamed and Diacent 12 centrifuges and inverted microscope using in-house procedures: SOP4054 SOP4055
Human Whole Blood (EDTA); Red Cells, Plasma Human Whole Blood (Coagulated); Serum	Determination of antibodies directed to all known blood group antigens	Indirect antiglobulin tube method  Indirect antiglobulin test Biorad gel card method  Direct agglutination 18/37C  Elution using the Gamma ElutKit II  Enzyme treated and chemically modified cells  Inhibition assays



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUE AND FLUIDS (cont'd)	<u>Red Cell Immunohaematology investigations for the purpose of clinical diagnosis (cont'd)</u>	Manufacturer's instructions for: Medion Cell washers, ECHOtherm incubators, Diamed and Diacent 12 centrifuges and inverted microscope using in-house procedures:  SOP4054 SOP4055
Human Whole Blood (EDTA); Red Cells, Plasma Human Whole Blood (Coagulated); Serum	Confirmation of red cell antigen phenotype:  A, B, A1, D, C, c, E, e, C <sup>w</sup> , M, N, S, s, P1, Lu <sup>a</sup> , K, k, Kp <sup>a</sup> , Le <sup>a</sup> , Le <sup>b</sup> , Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup>  Additional antigens for rare donor confirmatory testing:  Kp <sup>b</sup> , Js <sup>a</sup> , Js <sup>b</sup> , Lu <sup>b</sup> , Lu3, Fy3, U, Jk3, Co <sup>a</sup> , Co <sup>b</sup> , Yt <sup>a</sup> , Yt <sup>b</sup> , Vel, Lan, I, i, In <sup>a</sup> , In <sup>b</sup> , H	SOP4086 SOP4054  Indirect antiglobulin tube method  Indirect antiglobulin test Bio-Rad gel card method  Direct agglutination 18/37C  Using RBCs Polyclonal antibodies Monoclonal antibodies Lectins  Manual methods listed above using in-house procedures: SOP4086 SOP4054  Using: RBCs Polyclonal antibodies Monoclonal antibodies Lectins Eluates



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HUMAN TISSUE AND FLUIDS (cont'd)	<u>Red Cell Immunohaematology investigations for the purpose of clinical diagnosis (cont'd)</u>	Manufacturer's instructions for: Medion Cell washers, ECHOtherm incubators, Diamed and Diacent 12 centrifuges and inverted microscope using in-house procedures: SOP4054 SOP4055
Human Whole Blood (EDTA); Red Cells, Plasma Human Whole Blood (Coagulated); Serum	Other antigens: Majority of known red blood cell antigens (currently comprises 356 antigens)	Indirect antiglobulin tube method  Indirect antiglobulin test Bio-Rad gel card method  Direct agglutination 18/37C  using: RBCs Polyclonal antibodies Monoclonal antibodies Lectins Eluates
Whole blood EDTA, maternal plasma, amniocytes, chorionic villus samples	<u>Molecular</u>	Manufacturer's instructions for Qiagen blood DNA mini kit (manual) and QiaSymphony (automated) for extraction of DNA and in-house procedures:  SOP4095 SOP4092 SOP5195 SOP5813 SOP5276
DNA extracted from samples listed above:		Nanodrop 2000 Quantification of DNA  SOP5276



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HUMAN TISSUE AND FLUIDS (cont'd)  DNA isolated from sample types listed above	<u>Red Cell Immunohaematology investigations for the purpose of clinical diagnosis (cont'd)</u>  Detection of red cell antigen phenotype:  Blood Group sequencing principally <i>RHD</i> and <i>RHCE</i> genes to identify rare and complex variants  Detection of the presence of the <i>RHD*Weak D type 1 and 2</i> alleles	PCR using BioRad C1000 Touch Thermal Cycler and 3500XL Genetic analyser (di-deoxynucleotide chain termination during DNA replication) Seqscape v3  Sanger DNA sequencing 3500XL Genetic analyser (di-deoxynucleotide chain termination during DNA replication) Seqscape v3 and in-house procedures:  SOP4305, 4306, 4307, 4308  Allele specific Multiplex PCR using C1000 Touch Thermal Cycler (BioRad) and in-house procedures:  SOP4095, , SOP5165, SOP5276



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HUMAN TISSUE AND FLUIDS (cont'd)	<u>Red Cell Immunohaematology investigations for the purpose of clinical diagnosis (cont'd)</u>	DNA sequencing using: manufacturer's instructions for Sanger sequencing (dideoxynucleotide chain termination) with Bio-Rad C1000 Thermal cycler and 3500 XL genetic analyser
DNA provided by customers	DNA sequence	SOP5233
END		