


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>9811</b> Accredited to ISO 15189: 2022	<b>Legal entity</b>	
	<b>Issue No:</b> 004 <b>Issue date:</b> 15 May 2025	
	<b>Regional Histocompatibility &amp; Immunogenetics Laboratory</b> First Floor Northern Ireland Blood Transfusion Building Belfast City Hospital Lisburn Road Belfast BT9 7TS United Kingdom	<b>Contact:</b> Elaine Boyle <b>Tel:</b> +44 (0) 2895044529 (44529) <b>Fax:</b> +44 (0) 2890637741 <b>E-Mail:</b> Elaine.Boyle@belfasttrust.hscni.net <b>Website:</b> <a href="http://www.belfasttrust.hscni.net">http://www.belfasttrust.hscni.net</a>
Testing performed by the Organisation at the locations specified below		

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

#### Laboratory locations:

<b>Regional Histocompatibility &amp; Immunogenetics Laboratory</b> First Floor Northern Ireland Blood Transfusion Building Belfast City Hospital Lisburn Road Belfast BT9 7TS United Kingdom	<b>Contact:</b> Elaine Boyle <b>Tel:</b> +44 (0) 2895044529 (44529)	<b>Histocompatibility and Immunogenetics testing for clinical diagnosis</b>	<b>A</b>
<b>Genetics Laboratory</b> First Floor Belfast City Hospital Tower Block Belfast City Hospital Lisburn Road Belfast BT9 7TS United Kingdom	<b>Contact:</b> Elaine Boyle <b>Tel:</b> +44 (0) 2895044529 (44529)	<b>Histocompatibility and Immunogenetics testing for clinical diagnosis</b>	<b>B</b>



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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 TISSUES and BODY FLUIDS	Histocompatibility and Immunogenetics testing for clinical diagnosis	In house documented methods and manufacturer's instructions using:	A
Blood, buffy coat, spleen cells	Extraction and Standardisation of DNA	Promega Maxwell CSC system using Whole Blood DNA Isolation kit. SOP HI-1047 DNA Extraction: Promega Maxwell CSC Instrument	
Blood, buffy coat, spleen cells		QIAmp DSP mini kits SOP HI-220 DNA Extraction: QIAmp DSP DNA Blood Mini Kit	
DNA		Nanodrop 2000C. SOP: HI-232 Assay & Standardization of Chromosomal DNA using the Nanodrop 2000C	
Genomic DNA extracted from the above sample types	Molecular based determination of HLA type:  HLA-A, -B, -C, -DRB1, -DRB3,4,5, -DQA1, -DQB1, -DPA1 and -DPB1	PCR SSO typing and Luminex Labscan technology, including gel electrophoresis.  Luminex Analyser and HLA Fusion Software  SOPs: HI-215 Luminex HLA Typing Half Volume Beads; HI-227 Luminex HLA typing using full beads HI-223 Agarose Gel Electrophoresis HI-226 LABType HLA Analysis using HLA Fusion Software	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES and BODY FLUIDS (cont'd)			
Genomic DNA extracted from the above sample types	HLA-A, -B, -C, -DRB1, -DRB3,4,5, -DQA1, -DQB1, -DPA1 and -DPB1.	QType PCR using RT-PCR data analysis using Score 6 software, Roche Light Cyclers 480 II colour compensation,  SOPs: HI-879 QTYPE Real Time PCR HI-881 Analysing QType Plates using Score 6 software HI-888 Light Cyclers 480 II Colour Compensation	A
Genomic DNA extracted from the above sample types	HLA-B*27	RT-PCR using FastQ B*27 and Roche Light Cyclers 480 II  SOP: HI-918 HLA-B*27 typing using FastQ B*27 and analysis	A
	HLA-B*57	RT-PCR using LinkSeq  SOP: HI-1015 HLA-B*57:01 Identification using LinkSeq kit	A
Lymphocytes, serum	Serological Testing Cross-matching for the detection of HLA IgG antibodies to donor T and B lymphocytes	Analysis using three colour immunofluorescence flow cytometry on Becton Dickinson FACSLytic  SOPs: HI-961 3 Colour Flow Crossmatching for living & deceased donors on the BD FACSLytic. HI-1065 Isolation of total lymphocytes from peripheral blood, spleen & lymph node by Ficoll-Paque Plus. HI-212 Pronase Treatment of Peripheral Blood Lymphocytes	A



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HUMAN TISSUES and BODY FLUIDS (cont'd)  Lymphocytes, Serum	Cross-matching for the detection of HLA specific antibodies	Complement Dependant Cytotoxicity (CDC) to reduce IgM antibody using DTT, Fluorescent Microscope, Autoscope  SOPs: HI-202 CDC Crossmatching using DTT to Reduce IgM Antibody HI-920 Lymphocyte Isolation from Peripheral Blood & Tissues by Negative Selection	A
Human DNA	HLA Molecular Typing (Next Generation Sequencing): (HLA-A, -B, -C, -DRB1, -DRB3,4,5, -DQA1, -DQB1, -DPA1 and -DPB1)	Illumina MiSeq Instrument, AllType Fastplex NGS 11-loci Flex kit  SOP: HI-979 HLA Typing by Next Generation Sequencing using Illumina MiSeq Instrument	B
END			