## **Schedule of Accreditation**

issued by

## **United Kingdom Accreditation Service**

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



9037

Watford

Hertfordshire

**WD18 0HB** 

Accredited to ISO 15189:2022

## **HSL (Analytics) LLP**

Issue No: 009 Issue date: 12 September 2025

Haematology Department Contact: Andrew Clarke
Watford General Hospital Tel: +44 (0) 020 7307 7342

Vicarage Road E-Mail: Andrew.Clarke@hslpathology.com

Website: www.hslpathology.com

Testing performed by the Organisation at the locations specified below

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

#### **Laboratory locations:**

Location details		Activity	Location code
Address Haematology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB	Local contact Krupa Amin Kanval Ali Chris Hessey	Haematology Coagulation Blood Transfusion	WGH
Address Haematology Department Pathology Department Hemel Hempstead General Hospital Hillfield Road Hemel Hempstead Hertfordshire HP2 4AD	Local contact Krupa Amin Kanval Ali Chris Hessey	Haematology Coagulation Blood Transfusion Immunology	ннн

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## **HSL (Analytics) LLP**

Issue No: 009 Issue date: 12 September 2025

Testing performed by the Organisation at the locations specified

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

Location details		Activity	Location code
Address: Blood fridge, WGH Main Theatre Haematology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB	Local contact: Chris Hessey	Satellite Blood Issue Fridge for storage of blood and products	
Address: Blood fridge, WGH Maternity Delivery Suite Haematology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB	Local contact: Chris Hessey	Satellite Blood Issue Fridge for storage of blood and products	
Address: Blood fridge, WGH Helen Donald Unit Haematology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB	Local contact: Chris Hessey	Satellite Blood Issue Fridge for storage of blood and products	
Address: WGH Phlebotomy Haematology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB	Local contact: Islay Lawton	Phlebotomy	
Address: Blood fridge, Main Theatres St Albans City Hospital Waverly Road St Albans Hertfordshire AL3 5PN	Local contact: Chris Hessey/ Matt Ginger	Satellite Blood Issue Fridge for storage of blood and products	

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ISO 15189:2022

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

Location details		Activity	Location code
Address: Phlebotomy St Albans City Hospital Waverly Road St Albans Hertfordshire AL3 5PN	Local contact: Nadene Short	Phlebotomy	
Address: Blood fridge, Immunology corridor Hemel Hempstead Hospital Pathology Department Hemel Hempstead General Hospital Hillfield Road Hemel Hempstead Hertfordshire HP2 4AD	Local contact: Chris Hessey/ Matt Ginger	Satellite Blood Issue Fridge for storage of blood and products	
Address: Phlebotomy Hemel Hempstead General Hospital Pathology Department Hillfield Road Hemel Hempstead Hertfordshire HP2 4AD	Local contact: Nadene Short	Phlebotomy	

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## **HSL (Analytics) LLP**

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

#### **DETAIL OF ACCREDITATION**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS  Venous whole blood	Blood Transfusion  Blood Transfusion examination activities for the purposes of clinical diagnosis  Blood Group (ABO & RhD) and antibody Detection	Documented in-house procedures in conjunction with manufacturer's equipment manuals:  Automated method BioRad IH-1000: Gel-capture with optical detection and NHSBT Antibody 2 cell Screen (SOP: HASOPBT210)  Manual method BioRad Gel cards: Gel Capture-Manual technique agglutination and NHSBT Antibody 2 cell Screen	WGH
Venous whole blood	Atypical antibody Identification  Rh blood group system: C, c, D, E, e, C <sup>w</sup> Kell blood group system: K, k, Kpa Kidd blood group system: Jka, JKb Duffy blood group system: Fya, Fyb MNS blood group system: M, N, S, s P blood group system: P1 Lewis blood group system: Lea, Leb	NHSBT Antibody 2 cell Screen (SOP: HASOPBT210)  Manual method BioRad Gel cards: Gel-capture with optical detection Manual and NHSBT Antibody Identification 10-cell panel (SOP: HASOPBT210)  Automated method BioRad IH-1000: Gel-capture with optical detection Automated and Manual and NHSBT Antibody Identification 10-cell panel (SOP: HASOPBT210)	WGH

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#### 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
	Blood Transfusion (cont'd)		
HUMAN BODY FLUIDS (cont'd)	Blood Transfusion examination activities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
Venous whole blood	Direct Antiglobulin Test (DAT)	Manual method BioRad Gel cards: Gel Capture- Manual technique. (SOP: HASOPBT210)	WGH
		Automated method BioRad IH-1000: Gel Capture- Automated technique. (SOP: HASOPBT210)	
Venous whole blood	Estimation of fetal bleed in maternal circulation (Kleihauer Screen)	Light Microscopy, Kleihauer Acid Elution Methodology (Clin-Tech) (SOP: HASOPBT905)	WGH
Venous whole blood	Compatibility testing of patient's plasma with donor cells (Serological Crossmatch)	BioRad Gel cards: Gel Capture- Serological Crossmatch, Manual technique and visual detection (SOP: HASOPBT303)	WGH

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#### 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 (cont'd)	Blood Transfusion (cont'd)  Blood Transfusion examination activities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
Venous whole blood	Red cell Phenotyping:  Rh blood group system: C, c, E, e, C <sup>w</sup> Kell blood group system: K, Kp <sup>a</sup> Kidd blood group system: Jk <sup>a</sup> , JK <sup>b</sup> Duffy blood group system: Fy <sup>a</sup> , Fy <sup>b</sup> MNS blood group system: M, N, S, s  Lutheran blood group system: Lu <sup>a</sup> ABO blood group system: A1	BioRad Gel cards: Gel Capture-Manual technique; Using IgG Reagent. (SOP: HASOPBT501) Using IgM Reagent (SOP: HASOPBT502)	WGH

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#### 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
	Haematology		
HUMAN BODY FLUIDS (cont'd)	Haematology examination activities for the purposes of clinical diagnosis	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
EDTA whole blood	Full blood count: Haemoglobin (Hb) Red cell count (RBC), Platelet count, Haematocrit, White blood cell count (WBC) Differential white blood cell count (Neutrophil, Lymphocyte, Monocyte, Eosinophil, Basophil), NRBC count, MCV MCH	Beckman Coulter DxH: using fluorescence flow cytometry, electrical impedance, SLS-haemoglobin method, sheath flow direct current (DC) detection method and calculated red cell parameters (SOP: HASOPHA53)	WGH HHH
EDTA whole blood	Automated Reticulocyte Count	Beckman Coulter DxH: using fluorescence flow cytometry, (SOP: HASOPHA53)	WGH HHH
EDTA whole blood	Erythrocyte Sedimentation Rate (ESR)	Automated method Menarini Ves-Cube automated analyser, modified Westergren Sedimentation Method (SOP: HASOPHA70)	WGH HHH
EDTA whole blood	Detection of malarial antigens of: <i>P.falciparum</i> Pan-detection for <i>P.Malariae</i> , <i>P.Ovale &amp; P. Vivax</i>	CareStart monoclonal antibody- antigen reaction (SOP: HASOPHA52)	WGH HHH
EDTA whole blood	Detection of Malarial Parasites and Speciation on thin films: Plasmodium falciparum Plasmodium malariae Plasmodium ovale Plasmodium vivax Plasmodium knowesi	Fields and Dilute Giemsa staining with light microscopic detection. (SOP: HASOPHA51/HASOPHA01)	WGH HHH

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#### 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 (cont'd)	Haematology (cont'd)  Haematology examination activities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
EDTA whole blood	Examination of Peripheral Blood Films, detection of normal and abnormal morphology and white cell differential count	Manual Peripheral Blood film staining May-Grunwald-Giemsa (MGG) stain (SOP: HASOPHA30)  Automated Peripheral Blood film staining May-Grunwald-Giemsa (MGG) stain using Beckman Coulter SMS (SOP: HASOPHA62)  Light Microscopy on MGG stained slides (SOP: HASOPHA27)	WGH HHH
BM aspirate	Examination of Bone Marrow Films, detection of normal and abnormal morphology	Manual Bone Marrow film staining May-Grunwald-Giemsa (MGG) stain (SOP: HASOPHA30)  Automated Bone Marrow film staining May-Grunwald-Giemsa (MGG) stain using Beckman Coulter SMS (SOP: HASOPHA62)	WGH HHH
EDTA whole blood	Sickle Screening Test	Sickle Solubility test kit(Sickledex) Qualitative assessment of Haemoglobin S (SOP: HASOPSH27)	WGH HHH

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#### 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
	Haematology (cont'd)		
HUMAN BODY FLUIDS (cont'd)	Haematology examination activities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
	Thalassaemia and Abnormal Haemoglobin Screening	Documented in-house methods to meet the requirements of the SCT screening programme as defined in the 27th July 2018 'NHS Sickle Cell and Thalassaemia Screening Programme: laboratory quality assurance evidence requirements'.	
EDTA whole blood	Quantitation of HbA <sub>2</sub> Quantitation of HbF Quantitation of HbS Variant Hb	BioRad Variant II HPLC liquid Chromatography (SOP: HASOPSH09)	ннн
EDTA whole blood	Glandular Fever Screen	Clearview II kit, qualitative, lateral flow immunoassay for the detection of IM heterophile antibodies (SOP: HASOPHA26)	WGH HHH
EDTA whole blood	Glucose 6 Phosphate Dehydrogenase (G6PD) screen	Lateral Flow test (BinaxNOW) SOP HASOPSH26	ннн
Bone Marrow/Urine	Iron stain	Light microscopy of Perls Prussian Blue reaction, qualitative assessment of Hemosiderin by ferric ferrocyanide (SOP: HASOPHA29)	WGH HHH

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#### 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
	Coagulation		
HUMAN BODY FLUIDS (cont'd)	Haematology examination activities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
Citrated Whole Blood	Prothrombin Time/ INR Warfarin control	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP:HASOPCO22)	WGH HHGH
Citrated Whole Blood	Activated Partial Thromboplastin Time (APTT)/ Heparin Ratio	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO22)	WGH HHH
Citrated Whole Blood	Thrombin time	Werfen Automated Coagulometer ACL TOP 550 clot end point detection. (SOP: HASOPCO22)	WGH HHH
Citrated Whole Blood	Fibrinogen/QFA Assay	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO22)	WGH HHH
Citrated Whole Blood	D-Dimer Assay	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO22)	WGH HHH
Citrated Whole Blood	Clotting Factor Assays: VIII IX XI	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO23)	WGH
Citrated Whole Blood	Clotting Factor Assays: VIII IX XI XII II VII VII X V	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO23)	ННН

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#### 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
	Coagulation		
HUMAN BODY FLUIDS (cont'd)	Haematology examination activities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
Citrated Whole Blood	Thrombophilia Screening (AT activity, Protein C activity, Free Protein S Antigen)	Werfen Automated Coagulometer ACL TOP 550 Chromogenic and immuno- turbidometric detection point detection. (SOP: HASOPCO24)	ННН
Citrated Whole Blood	Von Willebrands Antigen, Activity	Werfen Automated Coagulometer ACL TOP 550 Immuno-turbidometric Latex agglutination detection. (SOP: HASOPCO21)	ННН
Citrated Whole Blood	Anti-Xa Activity	Werfen Automated Coagulometer ACL TOP 550 Chromogenic detection. (SOP: HASOPCO26)	WGH HHH
Citrated Whole Blood	Lupus Anticoagulant Screening	APTT and DRVVT methodology Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO25)	ННН

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#### 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
	Immunology		
HUMAN BODY FLUIDS	Immunology examination activities for the purposes of clinical diagnosis	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
Blood (Serum)	Specific IgE: House dust mite Cat dander Dog dander Egg white Milk Fish (cod) Wheat Peanut Soya bean Hazel nut Brazil nut Almond Pecan nut Cashew nut Pistachio Walnut Nut mix Mixed grass pollen Aspergillus fumigatus Mould mix Common silver birch Mixed tree pollen Penicilloyl G Penicilloyl G Penicilloyl V Amoxicilloyl Horse dander Guinea pig epithelium Budgerigar feathers Rabbit epithelium Hamster epithelium Hamster epithelium Milk (Bos d 6) Parrot feathers Barley Oat Rice Sesame seed Pea White bean Crab Tomato	Enzyme Immunoassay using Phadia 250 (SOP: HASOPIM20)	HHH

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

Materials/Products tested	Type of test/Properties measured/Range of	Standard specifications/	Location
Waterials/1 Todasto tostod	measurement	Equipment/Techniques used	Code
	Immunology (cont'd)		
HUMAN BODY FLUIDS (cont'd)	Immunology examination activities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
	Specific IgE (cont'd): Pork Beef Carrot Orange Potato Blue Mussel Tuna Salmon Haddock Strawberry Yeast Garlic Onion Shrimp Coconut Apple Egg yolk Milk (Bos d 4) Milk (Bos d 5) Milk (Bos d 8) Gluten Lobster Cheese, cheddar type Chicken meat Kiwi Melon Mustard Mango Banana Cacao Pear Peach Avocado Mackerel Lemon Pineapple Mushroom Paprika (Sweet pepper) Pumpkin seed Egg (nGal d 2) Egg (nGal d 1)	Enzyme Immunoassay using Phadia 250 (SOP: HASOPIM20)	HHH

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

	Type of test/Properties	Standard specifications/	Location
Materials/Products tested	measured/Range of measurement	Equipment/Techniques used	Code
	Immunology (cont'd)		
HUMAN BODY FLUIDS (cont'd)	Immunology examination activities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
	Specific IgE (cont'd): Lentil Cherry Pine nut Plaice Squid (Atlantic) Grape Aubergine (eggplant) Chilipepper Goat milk Chick pea Rape seed Egg (nGal d 3) Raspberry Macadamia nut Peanut (rAra h 8) rBer e 1 (Brazil nut) Wheat (Tri a 19 Omega-5 Gliadin) rPru P 3 LTP (Peach) Peanut (rAra h 1) Peanut (rAra h 2) Peanut (rAra h 3) Hazel nut (Cor a 8) Peanut (rAra h 9) Hazel nut (Cor a 1) Hazel nut (Cor a 9) Walnut (Jug r 1) Walnut (Jug r 3) Cashew nut (Ana o 3) Seafood mix Food mix Timothy grass Budgerigar mix Pigeon mix Micropolyspora faeni IgG Thermactinomyces vulgaris IgG Honey Bee Common Wasp	Enzyme Immunoassay using Phadia 250 (SOP: HASOPIM20)	HHH

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#### 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 (cont'd)	Immunology (cont'd)  Immunology examination activities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
	Specific IgE (cont'd): Yellow hornet Latex Sunflower seed Penicillium chrysogenum Cladosporium herbarum Alternaria alternata Weed mix Total IgE Specific IgG Mast Cell Tryptase Anti-Thyroid Peroxidase Ab Anti-ENA Ab Screen Anti-BNA Ab Anti-PR3 Ab Anti-PR3 Ab Anti-PR3 Ab Anti-Cardiolipin Ab (IgG) Anti-Cardiolipin Ab (IgM) Anti-Cardiolipin Ab (IgM) Anti-TG Ab (IgA) Anti-CCP Ab	Enzyme Immunoassay using Phadia 250 (SOP: HASOPIM20)	ННН
Faecal sample	Calprotectin	Enzyme Immunoassay using Phadia 250 (SOP: HASOPIM20)	ННН
Blood (Serum)	Anti-nuclear Antibody (ANA) Smooth Muscle Antibody (SMA) Anti-Mitochondrial Antibody (AMA) Gastric Parietal Cell Antibody (GPC) Crithidia Antibody Islet Cell Antibody Endomysial Antibody (IgA + IgG)	Immunofluorescence-HTZ 320 Automated Slide processor and fluorescent microscopy, (SOP: HASOPIM41)	ННН

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#### 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	
	Immunology (cont'd)			
HUMAN BODY FLUIDS (cont'd)	Immunology examination activities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:		
Blood (Serum)	Liver Kidney Microsomal Antibody (LKM) Mitochondrial (AMA-M2) Antibody	ImmunoBlots-Blue Diver methodology (SOP: HASOPIM38)	ННН	
END				

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