genotyping@ibts.ie www.giveblood.ie +353-1-432 2974/2975 (Tel) +353-1-432 2701 (Fax) Form BT-0637 [5]



Please supply ≥3ml EDTA-coagulated whole blood. Store and Transport at room temperature.

Please ensure there are at least three (3) points of matching identification on this form and sample tube(s). Samples must be either hand-written at time of phlebotomy, or labelled using demand-printed labels.

PATIENT'S DETAILS				TEST REQUIRED (Please Tick)		
Surname		EDD and Gestation		See Reverse	for Guide to Tests	
First Name		(if pregnant)		We	eak D Genotype	
(Maiden Name)		Known Blood Groups			se enclose copies of RhD phenotyping results	
Gender		Known Antibodies		RH	RHD/RHCE Genotype Please enclose copies of RhD phenotyping results	
DoB		Hospital				
MRN		Consultant		Ful	l RBC Genotype	
Ethnic Origin		Sample Type,			Please enclose copies of any phenotyping results	
		Date & Time			CE Variant Investigation	
Address		Referring Laboratory			ase ring before referring ase enclose copies of RhCcEc phenotyping results)	
		Sample Number			Other Blood Group Genotype Investigation	
Clinical Details and Other Useful Information (e.g. transfusion, transplantation, medication, diagnosis				Pleas	Please ring before referring (Currently referred to IBGRL, UK)	
					Please tick Here if Urgent rgent samples processed within 48 hours (Mon-Fri only).	
				An a	dditional emergency charge will apply.	
Requester's Det	ails					
Print Name		Signature		Position	Date	
Print Name				Position	Date	
Print Name			or IBTS Use Only	Position	Date	
Print Name	1		For IBTS Use Only Date & Time Received by		Date	
	1				Date	
	1					
	1				Date	
	1					
	1					
Sample Labelled	1					
Sample Labelled	1					
Sample Labelled	1					

Hospitals wishing to refer for the first time must contact the Blood Group Genetics Laboratory before sending the sample to discuss the appropriateness of the proposed investigation.

Sample Requirements

- 1. Peripheral whole blood (≥3ml) collected in EDTA-coagulated tube.
- 2. The sample tube should not be opened following phlebotomy (please contact BGGL if this is not possible).
- 3. The sample should not be used for any other testing.
- 4. The sample tube should only be stored at room temperature.
- 5. The sample tube **MUST** be labelled with the following information:
 - a. Three unique sample identifiers including: first name and surname, date of birth, and hospital number (these **MUST** be identical to the Test Request Form)
 - b. The patient's ethnic origin should be indicated: this is very useful information for result interpretation.
 - c. Samples **MUST** be labelled, dated and signed by the person taking them.
- 6. Addressograph labels are **NOT** acceptable on sample.
- 7. Samples must either have handwritten labels, or demand-printed labels produced at the time of phlebotomy.
- 8. Hand written alterations on either the sample or request form may make the sample invalid for testing.
- 9. Any minor alterations must be initialled by the person taking the sample to be acceptable for testing.

Test Information

	Identifies Weak D patients that can safely be treated as RhD-positive, and those that should be treated as RhD-negative:
	Weak D types 1, 2 and 3 → Treat as RhD-positive
	All other Weak D Types → Treat as RhD-negative
Weak D Genotype	This test is not the appropriate test for baby samples, where the purpose of testing is to determine if prophylactic anti-D is required for mother. (RHD genotype or RhD phenotype should be requested (RhD phenotyping is performed by Red cell Immunohaematology Laboratory, NBC or Diagnostics Laboratory MRTC).
	Please supply copies of any RhD phenotype testing performed by your laboratory
	Identifies RHD type (including the most common RHD variants) and C/c/E/e types. Important RHD variants in Caucasian and Asian patients (e.g. DIIIc, DVI, DVII) and Africans (e.g. DIIIa, DAU-4, DAR) are covered. Useful for the following patients: • RhD-positive with apparent alloanti-D. • Patients of African origin (RHD variants are more common).
RHD/RHCE Genotype	 Haemoglobinopathy Patients going on transfusion programs (identify those who can safely receive RhD-positive red cells) Patients where is it unclear if they have auto or alloanti-D.
	Please supply copies of any RhD phenotype testing performed by your laboratory
	Identifies the predicted phenotype for common blood groups. This test is useful for the following groups of patients: • Multi-transfused patients • Patients with AIHA_CAD, or other conditions with autoantibodies interfering with red cell serology.
	 Patients with AIHA, CAD, or other conditions with autoantibodies interfering with red cell serology DAT positive patients
Full RBC Genotype	 Patients with multiple myeloma being (or about to be) treated with Darzalex[™] (Daratumumab)
	The Full RBC Genotyping test predicts the phenotype for the following blood groups:
	RhD, C/c, E/e, K/k; Fy [®] /Fy ^b (including Fy _{GATA} and Fy ^X); Jk [®] /Jk ^b ; M/N/S/s; Do [®] /Do ^b ; Vel.
	Please supply copies of any phenotype testing performed by your laboratory
	This test profile identifies the most important <i>RHCE</i> variants in both Caucasian and African populations. The test may be useful for African patients
	with possible variant expression of the C-antigen and e-antigen.
RHCE Variant Genotype	PLEASE CONTACT LABORATORY TO DISCUSS REASON FOR REFERRAL.
	Please supply copies of any RhCcEe phenotype testing performed by your laboratory . If indicated, samples will be referred to IBGRL (NHSBT) for RHD/RHCE sequencing. Turn-around-times for this test can be significant.
Other Blood Group Genotype Investigation	Molecular investigation for other blood groups not covered by any of the test profiles described above may be indicated. PLEASE CONTACT LABORATORY TO DISCUSS REASON FOR REFERRAL.
	Samples are currently referred to IBGRL, NHSBT

Please refer to User Guide for additional information.

The following can be found at www.giveblood.ie/Clinical-Services/Blood-Group-Genetics/

- Red Cell Genotyping Test Request Form (BT-0637 RED)
- Fetal RHD Screen Test Request Form (BT-0638 YELLOW)
- IBTS Address Label Template
- User Guide (IBTS/BGG/UG/0001)
- Other useful information.

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