



International Rare Donor Panel

The IRDP database can only be accessed by authorised users.

[Access the database](#)



Rare Donor Program

Country: MALAYSIA

Malaysia

Rare Donor Program

Rare Donor Program	Yes
National Regional or Facility based	National
Number of Rare Donors	406
Definition of Rare	A donor is considered to be rare, if the prevalence of such a donor in the population is 1 : 1000 or less. Those who have combination of multiple negative allo antigens are also considered as rare donor.
Are the donors listed in the International Rare Donor Panel	No
Frozen Inventory	Yes
How are Rare Donors found	Random phenotyping Mass screening in targeted population Family screening Patients with corresponding antibody – counselling to recruit as rare donor & family study will be conducted
Number of Rare Donor Units used per year	336 (year 2022)
ISBT Rare Donor WP Blood Shipment form used	No
Outcome of incompatible transfusion form used	No
Most difficult types to find	Diego b negative
Phenotypes confirmed by molecular testing	Some are confirmed with molecular, some are only by serology and also by referral to IBGRL.

Country/Region:

Phenotype	Total Active Donors	Group O	O Positive	O Negative	Other ABO/Rh
GE:-2,-3	0	0	0	0	0
JK(a-b-)	216	100	100	0	52 A+, 55 B+, 2 B -, 9 AB +
Ko	3	0	0	0	2 A+, 1 B +
Kp(b-)	1	0	0	0	1 B+
MkMk	0	0	0	0	0
Rh:-34	0	0	0	0	0
U-	0	0	0	0	0
PP1PK-	4	2	2	0	1B+, 1 AB+
SC:-1	0	0	0	0	0
En(a-)	0	0	0	0	0
At(a-)	0	0	0	0	0
Di(b-)	0	0	0	0	0
Jr(a-)	0	0	0	0	0
Rh null	1	1	0	1	0
Vel(-)	0	0	0	0	0
D--	4	2	2	0	2 B+
Oh	11	0	0	0	0
Parabombay	25	4	4	0	Parabombay B 11 Parabombay A 10

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How are your rare donors found?

	Yes / No	Method	Comments
Extended phenotyping donors	Yes	Serology	
Extended genotyping donors	Some cases only	Bagene kit & HEA	
Family studies	Yes	Serology	
Antibody investigations	Yes	Serology	Patients' sample only
Other	1) Random phenotyping 2) Mass population screening in targeted population 3) Family screening 4) Patients with corresponding antibody – counselling to recruit as rare donor & family study will be conducted	Serology	



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Red Cell Product Specifications

Country: MALAYSIA

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Donor Selection

Donation	Voluntary Non Remunerated	
Age or Weight Restrictions	17 to 70 years old. Accept up to 60 years old for first time donor. May accept regular donor up to 70 years old with annual medical check-up which includes chest X-ray, ECG, LFT, Renal Profile, Fasting Blood Sugar and Full Blood Profile or letter from physician stating that donor is fit to donate. For donors aged 17 years old, written parental/guardian's consent is compulsory.	
Donation Interval	Whole blood donation A donor is allowed a maximum of 4 whole blood donations in a period of 12 months subject to a minimum interval of 8 weeks between successive donations	
Sexual Activity Precautions	Defer permanently: a) Men who have sex with men (MSM). b) Individuals who make or receive payment in exchange for sex, including sex workers and their clients. c) Live the lifestyle of having casual sex or having multiple sexual partners.	
Travel Exclusions If donor has returned from an area endemic for the listed infectious illnesses	Dengue	Not deferred
	Ebola	Not deferred
	Malaria	Not deferred
	West Nile Virus	Individuals who have known WNV infection or symptoms suggestive of WNV. Defer for 6 months from date of full recovery. Defer for 28 days following return from visit to endemic area and asymptomatic.
Lifestyle	Acupuncture, piercing or tattoo	defer 6 months
	Drug use (Non-prescribed injected)	Drug users by injections (IVDUs), including body building drugs. Injecting drug use: Defer permanently individuals with history of drug use by injection Non-injected drug use: Defer for 6 months from last in-take of the substance.
	Incarceration	Not listed in deferral criteria
CJD restrictions	Defer permanently sporadic and familial CJD and first-degree relatives. Defer permanently if history of treatment with pituitary-derived human growth hormone, human gonadotrophin, dura mater graft, corneal transplantation, neurosurgery. Defer permanently if ever suspected or diagnosed with variant CreutzfeldtJakob disease (vCJD). Defer permanently if ever visited or lived in the United Kingdom (England, Northern Ireland, Ireland, Wales, Scotland, the Isle of Man, the Channel Island) or the Republic of Ireland for a cumulative period of 6 months or more between 1st January 1980 to 31st December 1996. Defer permanently if ever visited or lived in the following European countries* for a cumulative period of 5 years or more between 1st January 1980 until now. (*Austria, Belgium, Denmark, Finland, France, Germany, Greece, Holland, Italy, Liechtenstein, Luxembourg, Norway, Portugal, Spain, Sweden and Switzerland.)	
Covid restrictions	COVID19 vaccine administration	<ol style="list-style-type: none"> Following non-live COVID-19 vaccination donors are allowed to donate: a. 7 days after receiving their 1st, 2nd or booster dose of vaccination with no adverse reaction experience. b. 7 days after complete resolution from symptoms following any adverse reaction post vaccination. c. Permanent deferral If anaphylaxis reaction post vaccination. Following live COVID-19 vaccination: a. Defer 14 days after vaccine administration. b. Permanent deferral If anaphylaxis reaction post vaccination. Unsure type of vaccine : Defer 14 days of receiving vaccines if well.
	COVID infection	
	Household contact	

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Mandatory Infectious Diseases Screening of Blood Products		
	Screening test	Residual Risk of blood transfusion transmission (based on data 2008-2018)
HIV	HIV Ag/Ab NAT HIV RNA	1.91 per million donation
HCV	HBs Ag NAT HBV DNA	6.78 per million donation
HBV	Anti HCV NAT HCV RNA	0.23 per million donation
Syphilis	RPR	
HTLV (1 & 2)	NA	NA
CMV	NA	NA
Zika Virus	NA	NA
West Nile Virus	NA	NA
Babesia	NA	NA
Trypanosoma cruzi (T. cruzi) Chagas Disease	NA	NA

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Red Cell Blood Product

Description	Leuco-depleted Red Cell	Pedi pack Red Cell	Washed Red Cell	Glycerolised Red Cell
Anticoagulant	CPD	CPD	CPD	Glycerol
Additive solution	Optisol	Optisol	AS-3	AS-3
Average volume	300 ml	70 ml	320 ml	250 ml
Storage temperature	2-6 °C	2-6 °C	2-6 °C	-80 °C
Transportation temperature	2-10 °C	2-10 °C	2-10 °C	2-10 °C (post glycerolisation)
Storage duration	42 days	42 days	7 days	10 years
Leukofiltration				
Irradiation policy	Patients with absolute clinical indications for irradiated blood components transfusion	Patients with absolute clinical indications for irradiated blood components transfusion	Patients with absolute clinical indications for irradiated blood components transfusion	-
Others	Post filtration: WBC less than $\leq 1 \times 10^6$	Filtered Pedi pack unit	The processing via automation (closed method)	Expiry days post deglycerolisation : 7 days



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Frozen Inventory

Country: MALAYSIA

Country/Region:

General Information

Freezing Method	Red cells are frozen in cyroprotectant using either low or high glycerol technique (Automation)
Frozen Expiry (years)	10 years.
Storage Temperature	Minus 65°C or colder.
Can inventory be issued and sent frozen	No at moment.
Thawing Method	Thaw in water bath at 37°C for approximately 15 minutes until the Red Cell temperature is within 30-34°C. Then proceed with deglycerolization via automation method.
Thawed Expiry (days)	7 days
Additive Solution	AS-3
Irradiation Policy	Proceed with irradiation based on absolute clinical indication for red cells irradiation.
IUT and Neonate use	No history of usage/transfusion
Supply out of date Policy	Currently to supply before expired date. On-going study to prolonged the storage duration (aim for 11 to 15 years)

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Product Specifications		
Volume	Glycerolised Red Cells	Deglycerolised Red Cells
	700-795 ml	300-450 ml
Supernatant Haemoglobin	Not tested	Not tested
Haematocrit	0.40-0.70	0.40-0.70
Haemoglobin	≥40g/unit	≥40g/unit
Osmolarity	<20 mOsm/L of resuspending fluid	<20 mOsm/L of resuspending fluid
Residual leucocyte content	Not Counted	Not Counted
Sterility	Not tested	Not tested
Other	Nil	Haemolysis: <0.8% of red cell mass

The screenshot shows the IRDP website interface. The main area features a world map with several red and blue location markers. The right sidebar provides detailed donor information:

- Donor 4737235** (Australian Red Cross Blood Service): 25 donors and 33 frozen units. ABO Group: O, Rarities: Co(a-), Antigenes present: Co^a, Le^a, e, s, Jk^b, C, Jk^b, N, D, Fy^a, Antigenes absent: Kp^a, Co^b, Le^b, M, Fy^a, S, c, K, E.
- Donor 3438459**: ABO Group: O, Rarities: Co(a-), Antigenes present: Co^a, Fy^a, s, c, Jk^b, Le^a, Fy^a, E, C, e, Jk^a, D, M, Antigenes absent: N, S, K, C^W, Lu^a, Le^b, Kp^a, Co^b, P1.
- Donor 3191018 (5 Frozen Units)**: ABO Group: O, Rarities: Co(a-), Antigenes present: Le^a, D, e, Lu^a, Jk^b, Fy^a, M, W, N, s, Jk^a, C, Co^b, Antigenes absent: P1, S, Kp^a, K, Co^b, Le^b, c, Fy^a, Lu^a, C^W, E.
- Donor 3504950 (4 Frozen Units)**: Donors: 0, Rarities: Co(a-), Antigenes present: P1, S, Kp^a, K, Co^b, Le^b, c, Fy^a, Lu^a, C^W, E.



Ordering and Shipping

Country: MALAYSIA

Country/Region:

Exporting

Request form available

No

Government Requirements

Regulatory Requirements

Rare Donor Program Requirements

Other

We have never explored the option as we just joined ISBT working party Rare donor

Country/Region:

Importing

Government Requirements	We have never explored the option as we just joined ISBT working party Rare donor
Regulatory Requirements	
Rare Donor Program Requirements	
Other	