



International Rare Donor Panel

The IRDP database can only be accessed by authorised users.

[Access the database](#)



Rare Donor Program

Country: New Zealand

New Zealand

Rare Donor Program

Rare Donor Program	Yes
National Regional or Facility based	National
Number of Rare Donors	76 excluding r'r' r''r'' and Fya-b-
Definition of Rare	We do not have any specific definition of a rare donor. However, a rare donor could be defined as someone whose blood is rarely needed for transfusion and could also be defined as a donor whose blood may be required reasonably frequently and this alludes to transfusion needs of patients who have formed multiple alloantibodies
Are the donors listed in the International Rare Donor Panel	Yes
Frozen Inventory	Yes
How are Rare Donors found	Selected donor phenotyping/genotyping where regular transfusion requirements for a patient needs to be met.
Number of Rare Donor Units used per year	< 20 units per year
ISBT Rare Donor WP Blood Shipment form used	Yes
Outcome of incompatible transfusion form used	Yes
Most difficult types to find	Rh null
Phenotypes confirmed by molecular testing	Yes when phenotyping is not possible or is non-conclusive

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Phenotype	Total Active Donors	Group O	O Positive	O Negative	Other ABO/Rh
GE:-2,-3	0	0	0	0	0
JK(a-b-)	39	19	19	0	20
Ko	0	0	0	0	0
Kp(b-)	0	0	0	0	0
MkMk	0	0	0	0	0
Rh:-34	0	0	0	0	0
U-	0	0	0	0	0
PP1PK-	0	0	0	0	0
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	0	0	0	0	0
Vel(-)	0	0	0	0	0
D--	2	0	0	0	1
Oh	2	N/A	N/A	N/A	N/A
Lub-	30	30	24	6	0
MAM	1	1	1	0	0
C0(a-)	2	0	0	2	0

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How are your rare donors found?

	Yes / No	Method	Comments
Extended phenotyping donors	Yes	Extended phenotype for Rh (C,E, c, e), K, JK, Fy, S,s, M&N K+ donors are typed for k Manual tube and CAT (Grifols)	We may consider confirmation with molecular testing
Extended genotyping donors	Yes	Very occasionally using Innotrain SSP	If we did have the appropriate antisera then we will confirm with this.
Family studies	Yes	Yes	Donors are approached to identify potential family members for testing.
Antibody investigations	Yes	All donors are screened for red cell antibodies using Immucor neo with confirmation by the red cell reference lab with CAT (Grifols)	May need to also resort to molecular testing.
Other	N/A	N/A	N/A



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Red Cell Product Specifications

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Donor Selection

Donation	Voluntary	
Age or Weight Restrictions	New donors 16-71 years; Existing donors 16-80 years > 50kg	
Donation Interval	84 days	
Sexual Activity Precautions	Positive for HIV, Hepatitis B/C, or HTLV	Permanent deferral
	Male to male sex	3 months deferral
	Sex worker or contact with sex worker	3 month deferral
Travel Exclusions If donor has returned from an area endemic for the listed infectious illnesses	Dengue	4 week deferral
	Ebola	8 week deferral
	Malaria	Antibody screening : If donor has visited in previous 3 years or lived for 6 or more months continuously
	West Nile Virus	4 week deferral
Lifestyle	Acupuncture, piercing or tattoo	3 month deferral
	Drug use (Non-prescribed injected)	Permanent deferral
	Incarceration	Not a criteria
CJD restrictions	Permanent deferral. We are considering revising it	
Covid restrictions	COVID19 vaccine administration	No deferral
	COVID infection	7 day deferral from last symptoms
	Household contact	According to the relevant public health guidelines

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Mandatory Infectious Diseases Screening of Blood Products		
	Screening test	Risk of blood transfusion transmission
HIV	HIV-1/2 Ab and RNA by NAT	1 in 1 million
HCV	HCV Ab and RNA by NAT	1 in 1 million
HBV	HBsAg and HBV DNA by NAT	1 in 300,000
Syphilis	Treponemal antibody	
HTLV (1 & 2)	HTLV-1/2 Ab for new donors	1 in 1 million
CMV	<p>Not routinely screened.</p> <p>Blood components manufactured and labelled for neonatal use will continue to be CMV negative. However, availability of these component types for all neonatal transfusions may not be possible in which case standard leucodepleted blood components will be issued. There will be situations when specific requests for CMV negative blood components are approved following discussion.</p>	
Zika Virus	N/A	Very low risk to blood safety
West Nile Virus	N/A	Currently very low risk to blood safety
Babesia	N/A	Not aware of any reported cases in New Zealand
Trypanosoma cruzi (T. cruzi) Chagas Disease	N/A	We have had two donors with antibodies but no evidence of disease.

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Red Cell Blood Product

Description	Red Cells Resuspended Leucocyte Depleted
Anticoagulant	CPD
Additive Solution	SAG-M
Leukofiltration	Leucocyte reduced to $<5 \times 10^6$ per unit
Average volume	220-340 mL
Storage Temperature	2° C to 6° C
Transport Temperature	2° C to 10° C
Storage Duration	35 days
Irradiation Policy	Gamma irradiation: 25-50Gy
Other	Haematocrit .50 – 0.70 ; Haemoglobin \geq 40g/unit

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Red Cell Blood Product

Description	Red Cells Resuspended Neonatal Leucocyte Depleted
Anticoagulant	CPD
Additive Solution	SAG-M
Leukofiltration	Leucocyte reduced to < 5 x 10E6 per unit
Average volume	55-85 mL
Storage Temperature	2°C to 6°C
Transport Temperature	2°C to 10°C
Storage Duration	35 days
Irradiation Policy	Gamma irradiation: 25-50Gy
Other	Haematocrit 0.50 – 0.70; CMV negative; High titre anti A and/or B negative

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Red Cell Blood Product

Red Cell Blood Product	
Description	Red Cells Washed Leucocyte Depleted
Anticoagulant	CPD
Additive Solution	SAG-M
Leukofiltration	<5x 10 ⁶ /unit
Average volume	220-340 mL
Storage Temperature	2° C to 6° C
Transport Temperature	2° C to 10° C
Storage Duration	7 days
Irradiation Policy	Gamma irradiation: 25-50Gy
Other	Haematocrit 0.40-0.70; Haemoglobin ≥36 g per unit; Percentage haemolysis < 0.8% of red cell mass

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Red Cell Blood Product

Red Cell Blood Product	
Description	Red Cells for IUT Leucocyte Depleted
Anticoagulant	CPD
Additive Solution	SAG-M
Leukofiltration	<5x 10 ⁶ /unit
Average volume	Haematocrit 0.75 – 0.90
Storage Temperature	2 ^o C to 6 ^o C
Transport Temperature	2 ^o C to 10 ^o C
Storage Duration	24 hours post irradiation
Irradiation Policy	Gamma irradiation 25-50Gy
Other	CMV negative; High titre anti-A and/or B negative; DAT negative

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Red Cell Blood Product

Description	Red Cells Cryopreserved, Leucocyte-Depleted
Anticoagulant	CPD
Additive Solution	High Glycerol Cryoprotectant
Leukofiltration	<5x 10 ⁶ /unit
Average volume	>185 mL
Storage Temperature	-60 ⁰ C to -80 ⁰ C ; 2 ⁰ C to 6 ⁰ C once thawed and reconstituted
Transport Temperature	-60 ⁰ C to -80 ⁰ C; 2 ⁰ C to 10 ⁰ C once thawed and reconstituted
Storage Duration	10 years
Irradiation Policy	Gamma irradiation 25-50Gy
Other	Haematocrit 0.35-0.70; Supernatant Haemoglobin < 0.2 g per unit; Haemoglobin ≥ 36 g per unit



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Frozen Inventory

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General Information

Freezing Method	High Glycerol Method
Frozen Expiry (years)	10 years
Storage Temperature	-60° C to -80° C
Can inventory be issued and sent frozen	Yes
Thawing Method	Deglycerolisation with Glucose 0.2% NaCl 0.9% S.A.L.F. SOL.FIS.2000.using Haemonatics ACP cell washer
Thawed Expiry (days)	72 hours
Additive Solution	SAG-M
Irradiation Policy	None but can be done as a patient tailored product
IUT and Neonate use	None but can be done as a patient tailored product
Supply out of date Policy	None. In exceptional circumstances this can be allowed and issued as non-conforming

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Product Specifications

Product Specifications	
Volume	> 185 mL
Supernatant Haemoglobin	< 0.2 g per unit
Haematocrit	0.35 -0.70
Haemoglobin	≥36 g per unit
Osmolarity	<375 mOsm/L
Residual leucocyte content	< 5 x 10 ⁰ / unit
Sterility	No growth
Other	N/A

The screenshot displays the IRDP website interface. On the left is a navigation menu with options like Home, Recent, Pinned, Find Blood, Rare Blood Search, Search History, Help Finding Blood, Contribute, Institutions, Contacts, Donors/Units, Contributor Dashboards, and Help Maintaining Data. The main area features a world map with red and blue location pins. On the right, a detailed donor profile is shown for Donor 4737235, including their IRDP ID (002573), ABO Group (O), and various antigens present and absent. Below this, other donor profiles are partially visible, such as Donor 3438459 and Donor 3191018 (5 Frozen Units).



Ordering and Shipping

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Exporting

Request form available	Yes
Government Requirements	None
Regulatory Requirements	None. Exemption for blood. Customs invoice done
Rare Donor Program Requirements	All blood group test results and donor accreditation test results
Other	N/A

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Importing

Government Requirements	N/A
Regulatory Requirements	None. Exemption for Blood. Customs Invoice only done
Rare Donor Program Requirements	All blood group test results and donor accreditation test results
Other	N/A