



International Rare Donor Panel

The IRDP database can only be accessed by authorised users.

[Access the database](#)



Rare Donor Program

Country: Switzerland

Country/Region:

Rare Donor Program

Rare Donor Program	Yes
National Regional or Facility based	National program, testing facility based
Number of Rare Donors	1140
Definition of Rare	Someone who is negative for a high prevalence antigen where the frequency of this antigen negative phenotype is less than 1 in 250. People with a combination of antigen negative phenotypes may also be considered rare (e.g. Fy(a-b-)).
Are the donors listed in the International Rare Donor Panel	yes
Frozen Inventory	no
How are Rare Donors found	Mainly by genotyping, but also by phenotyping (rarely by screening family members)
Number of Rare Donor Units used per year	20-30 (probably not all units counted)
ISBT Rare Donor WP Blood Shipment form used	No
Outcome of incompatible transfusion form used	No
Most difficult types to find	Di(a+b-) and Jr(a-)
Phenotypes confirmed by molecular testing	Yes, if possible (and other way around)

Country/Region:

Phenotype	Total Active Donors	Group O	O Positive	O Negative	Other ABO/Rh
GE:-2,-3	0				
JK(a-b-)	0				
Ko	0				
Kp(b-)	19	13	10	3	6
MkMk	0				
Rh:-34	0				
U-	2				1
PP1Pk-	0				
SC:-1	0				
En(a-)	0				
At(a-)	0				
Di(b-)	0				
Jr(a-)	0				
Rh null	0				
Vel(-)	36	16	13	3	20
D--	0				
Oh	1				

Country/Region: How are your rare donors found?

	Yes / No	Method	Comments
Extended phenotyping donors	Yes	All donors typed for Rh (C, E, c, e) and K - different methods (Grifols, BioRad, Immucor, etc) K+ donors typed for k – Manual method Selected donors typed for Fya, Fyb, Jka, Jkb, M, S and s (different methods)	In most cases the rare phenotype is confirmed with molecular testing
Extended genotyping donors	Yes	High throughput screening (MALDI-TOF Mass spectrometry), in house multiplex PCR-SSP, other methods	Where antisera is available phenotype is confirmed by serology.
Family studies	Yes	Recruitment of family of donors and patients	Information to recruit family of donors/patients is provided to the donor for discussion with family members. Family of patients are contacted via the treating clinician with patient consent.
Antibody investigations	No	Only first-time donors and women after pregnancies are screened	n.a.
Other	n.a.	n.a.	n.a.



ISBT

Red Cell Product Specifications

Country: Switzerland

Country/Region

Donor Selection		
Donation	Voluntary	
Age or Weight Restrictions	New Donors 18 to 65 years, Multiple donors up to 75 years > 50kg	
Donation Interval	12 weeks	
Sexual Activity Precautions	Positive for HIV, Hepatitis B/C, or HTLV	Permanent deferral, HTLV is not tested
	Male to male sex	12 months deferral
	Sex worker or contact with sex worker	12 months deferral
Travel Exclusions If donor has returned from an area endemic for the listed infectious illnesses	Dengue	1 month deferral
	Ebola	1 month deferral
	Malaria	6 months deferral Antibody screening: always if donor has lived there for 6 or more months
	West Nile Virus	1 month deferral
Lifestyle	Acupuncture, piercing or tattoo	4 months deferral
	Drug use (Non-prescribed injected)	Permanent deferral
	Incarceration	not in our regulations
CJD restrictions	Permanent deferral: - if donor has lived 6 or more months in the UK between 1.1.1980 and 31.12.1996 - if donor received a blood transfusion after 1980 - if blood related persons have CJD - after transplantation of cornea or meninges - after treatment with human pituitary gland hormones	
Covid restrictions	COVID19 vaccine administration	mRNA Vaccine and non-replicable, vector based vaccine: 48 hours replication-competent, vector based vaccine: 4 weeks
	COVID infection	7 days deferral from last symptoms
	Household contact	5 days deferral after last contact

Switzerland

Mandatory Infectious Diseases Screening of Blood Products

Screening test		Risk of blood transfusion transmission
HIV	IHV RNA by ID-NAT (cobas MPX Test)	1 in 34'000'000 risk of blood transfusion transmission
HCV	HCV Ab & HCV RNA by ID-NAT (cobas MPX Test)	1 in 50'000'000 risk of blood transfusion transmission
HBV	HBsAg & HBV DNA by ID-NAT (cobas MPX Test)	1 in 320'000 risk of blood transfusion transmission (including OBI)
Syphilis	Treponema syphilis Ab	very low
HTLV (1 & 2)	no screening in Switzerland	very low
CMV	Not routinely screened except in some BTS in Switzerland. Only Ab testing.	very low
Zika Virus	NA	Since about three years no reported infections in Switzerland. Mosquito vectors are only present in a few regions. Risk for transmitting infections through transfusions is very low. There is no need for testing.
West Nile Virus	Seasonal testing of donors at risk by ID-NAT (cobas WNV test)	Reported autochthonous WNV infections in Switzerland does't exist. Mosquito vectors are abundant. A preparedness plan was adopted an published.
Babesia	NA	Very rare cases in Switzerland. Babesiosis is not a notifiable disease. Low prevalence in arthropods. No testing required.
Trypanosoma cruzi (T. cruzi) Chagas Disease	Ab-testing for donors at risk	One probable case of transfusion transmitted Chagas disease in Switzerland was published. Donors born or travelled in countries at risk have to be tested for release of blood products.
HEV	HEV RNA by testing be pools of 16 (cobas HEV test)	low

Switzerland:

Red Blood Cell Product Leukocyte Depleted

Description	Erythrocyte concentrate (Red Blood Cell) produced from a Whole Blood Donation. RBC is obtained after centrifugation, component separation and Leukocyte depletion
Anticoagulant	Citrate Phosphate Dextrose (CPD) *, 63ml
Additive Solution	Saline Adenine Glucose Mannitol (SAG-M) *, 100ml
Leukofiltration	Leukocytes reduced to $< 1 \times 10^6$ /unit
Average volume	200 – 350ml
Storage Temperature	2°C – 6°C (permanent; no interruption) **
Transport Temperature	2°C – 10°C (max. 24h) **
Storage Duration	42d **
Irradiation Policy	external procedure at the University Hospital Canton of Zurich (USZ), Gamma irradiation 25Gy
Other	hematocrit 0.50 – 0.70; Hb \geq 40 g/unit

References:

- * Fresenius Kabi CompoFlow Quadruple bags, CQ32250
- ** Regulations ZHBSD Chapter 18A, Version 6, 01.11.2020

Switzerland:

Pediatric Red Blood Cell Product Leukocyte Depleted

Description	Erythrocyte concentrate (Red Blood Cell) produced from a Whole Blood Donation. RBC is obtained after centrifugation, component separation and Leukocyte depletion. The Red Cell Component is divided either into 2 (140ml +/- 20ml) or 4 (70ml +/- 10ml) smaller bags/packs
Anticoagulant	Citrate Phosphate Dextrose (CPD) *, 63ml
Additive Solution	Saline Adenine Glucose Mannitol (SAG-M) *, 100ml
Leukofiltration	Leukocytes reduced to $< 1 \times 10^6$ /unit, initial unit prior splitting
Average volume	140ml +/- 20ml (2 units) or 70ml +/- 10ml (4 units)
Storage Temperature	2°C – 6°C (permanent; no interruption) **
Transport Temperature	2°C – 10°C (max. 24h) **
Storage Duration	42d **
Irradiation Policy	external procedure at the University Hospital Canton of Zurich (USZ), Gamma irradiation 25Gy
Other	

References:

- * Fresenius Kabi CompoFlow Quadruple bags, CQ32250
- ** Regulations ZHBSD Chapter 18A, Version 6, 01.11.2020

Switzerland:

Red Cell Blood Product Washed Leukocyte Depleted

Description	Erythrocyte concentrate (Red Blood Cell) produced from a Whole Blood Donation. RBC is obtained after centrifugation, component separation and Leukocyte depletion and washed with sterile Saline Adenine Glucose Mannitol (SAG-M) solution using a manual process to remove the majority of unwanted plasma proteins, antibodies and electrolytes. The washed red cells are resuspended in SAG-M solution additive
Anticoagulant	Citrate Phosphate Dextrose (CPD) *, 63ml
Additive Solution	Saline Adenine Glucose Mannitol (SAG-M) *, 100ml
Leukofiltration	Leukocytes reduced to $< 1 \times 10^6$ /unit
Average volume	200 ml
Storage Temperature	2°C – 6°C (permanent; no interruption) **
Transport Temperature	2°C – 10°C (max. 24h) **
Storage Duration	24h after washing procedure
Irradiation Policy	external procedure at the University Hospital Canton of Zurich (USZ), Gamma irradiation 25Gy
Other	erythrocyte concentrate for intrauterine transfusion haematocrit 0.70 – 0.85 (0; RhD and Rh/K must be compatible with the maternal blood; RBCs to be transfused must be compatible with allo-antibodies in the maternal blood)

References:

- * Fresenius Kabi CompoFlow Quadruple bags, CQ32250
- ** Regulations ZHBSD Chapter 18A, Version 6, 01.11.2020



ISBT

Frozen Inventory

Country: n.a.

Switzerland:

General Information

Freezing Method	N.A.
Frozen Expiry (years)	
Storage Temperature	
Can inventory be issued and sent frozen	
Thawing Method	
Thawed Expiry (days)	
Additive Solution	
Irradiation Policy	
IUT and Neonate use	
Supply out of date Policy	

Country/Region:

Product Specifications

Volume
Supernatant Haemoglobin
Haematocrit
Haemoglobin
Osmolarity
Residual leucocyte content
Sterility
Other

The screenshot displays the IRDP website interface. On the left, a navigation menu includes options like 'Home', 'Recent', 'Pinned', 'Find Blood', 'Rare Blood Search', 'Search History', 'Help Finding Blood', 'Contribute', 'Institutions', 'Contacts', 'Donors/Units', 'Contributor Dashboard', and 'Help Maintaining Data'. The main area features a world map with red and blue location markers. 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, profiles for Donor 3438459 and Donor 3191018 (5 Frozen Units) are also visible, along with Donor 3504950 (4 Frozen Units).



Ordering and Shipping

Country: Switzerland

Country/Region:

Exporting

Exporting	
Request form available	No
Government Requirements	No
Regulatory Requirements	No
Rare Donor Program Requirements	Preferred courier – World Couriers
Other	NA

Country/Region:

Importing

Importing	
Government Requirements	National Blood Authority (Swiss Medic) approval to import Blood Products from other countries
Regulatory Requirements	NA
Rare Donor Program Requirements	A copy of all test results for the donation e.g. blood group, phenotype and infectious disease screening Temperature monitored transport (Preferred courier – World Couriers)
Other	NA