



International Rare Donor Panel

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Rare Donor Program

Country: Denmark

Country/Region:

Rare Donor Program

Rare Donor Program	No. We currently do not have an official national program. We are moving towards a national BECS (2023-2024) , which will facilitate such a program.
National Regional or Facility based	Each of the 5 Danish regions are each working to supply rare units to patients in their own region. However, there is some degree of resource sharing and cooperation between regions.
Number of Rare Donors	Unknown.
Definition of Rare	The consensus in Denmark is : Vel-, Yt ^{a-} , D- c-, S-s- (U-), Lu ^{b-} , Kp ^{b-} , D- e-, Co ^{a-} , k-, Fy(a- b-), Jk(a- b-), Rh null
Are the donors listed in the International Rare Donor Panel	No.
Frozen Inventory	There are frozen inventories at Aalborg University Hospital and Rigshospitalet (Copenhagen). Approx. 300 units (e.g., Rh null [currently reserved to patient] Vel-, k-, p-, Lu ^{b-} -)
How are Rare Donors found	Rigshospitalet (Copenhagen) routinely carry out extended genotyping of blood donors.
Number of Rare Donor Units used per year	Unknown. Estimate 5
ISBT Rare Donor WP Blood Shipment form used	No
Outcome of incompatible transfusion form used	No
Most difficult types to find	Rh null, U-
Phenotypes confirmed by molecular testing	Molecular testing is the preferred method of identifying rare donors

Country/Region:

Phenotype	Total Active Donors	Group O	O Positive	O Negative	Other ABO/Rh
GE:-2,-3					
JK(a-b-)					
Ko					
Kp(b-)					
MkMk					
Rh:-34					
U-					
PP1PK-					
SC:-1	This is currently unknown.				
En(a-)	These data will be available on a national level once the 5 regions share a BECS. However, we do have one Rh null patient/donor and one Jk(a-b-) donor.				
At(a-)					
Di(b-)					
Jr(a-)					
Rh null					
Vel(-)					
D--					
Oh					

Country/Region: How are your rare donors found?

	Yes / No	Method	Comments
Extended phenotyping donors	Yes	May only identify donors, who are Lu ^{b-} , Kp ^{b-} or k- or donors with rare combinations of phenotypes (e.g., D-e-)	
Extended genotyping donors	Yes	Custom method (samples are processed in the UK and NGS data analysis is carried out locally)	
Family studies	No		
Antibody investigations	Yes	Molecular diagnostics	Only very rarely will a patient become available as a donor
Other	No		



LSBT

Red Cell Product Specifications

Country: Denmark

Country/Region

Donor Selection

Donation	Voluntary	
Age or Weight Restrictions	18 (17) – 75 years (17 only with signed acceptance from parents)	
Donation Interval	Male: 3 months Female: 4 months	
Sexual Activity Precautions	Positive for HIV, Hepatitis B/C, or HTLV:	permanent deferral
	Male to male sex:	4 months deferral
	Sex worker:	permanent deferral
Contact with sex worker:	4 months deferral	
Travel Exclusions If donor has returned from an area endemic for the listed infectious illnesses	Dengue:	see Malaria
	Ebola:	see Malaria
	Malaria:	6 months deferral for travel to "Malaria-countries"
	West Nile Virus:	1 month deferral for travel to areas with West Nile Virus between 1. April and 30. November
Lifestyle	Acupuncture, piercing or tattoo	4 months deferral
	Drug use (Non-prescribed injected)	permanent deferral
	Incarceration	None, but no collections in prisons
CJD restrictions	Risk in family or risk after treatment: permanent deferral	
Covid restrictions	COVID19 vaccine administration	No deferral
	COVID infection	2 weeks deferral
	Household contact	No deferral

Country/Region

Mandatory Infectious Diseases Screening of Blood Products		
	Screening test	Risk of blood transfusion transmission
	HIV	antibody and nucleic acid testing
	HCV	antibody and nucleic acid testing
	HBV	antibody and nucleic acid testing
	Syphilis	NA
	HTLV (1 & 2)	NA
	CMV	NA
	Zika Virus	NA
	West Nile Virus	NA
	Babesia	NA
	Trypanosoma cruzi (T. cruzi) Chagas Disease	NA

Country/Region:

Red Cell Blood Product

Red Cell Blood Product	
Description	Fresenius PQ32250 CompoSelect® Quadruple, T&B with integrated leukocyte depletion
Anticoagulant	63 ml CPD
Additive Solution	100 ml SAG-M
Leukofiltration	Yes, 100%
Average volume	250 ml
Storage Temperature	Between + 2 and + 6 °C
Transport Temperature	Below + 10 °C
Storage Duration	35 days
Irradiation Policy	Always: children 0 – 3 months old. Upon request: children > 3 months and adults
Other	



ISBT

Frozen Inventory

Country: Denmark

Country/Region:

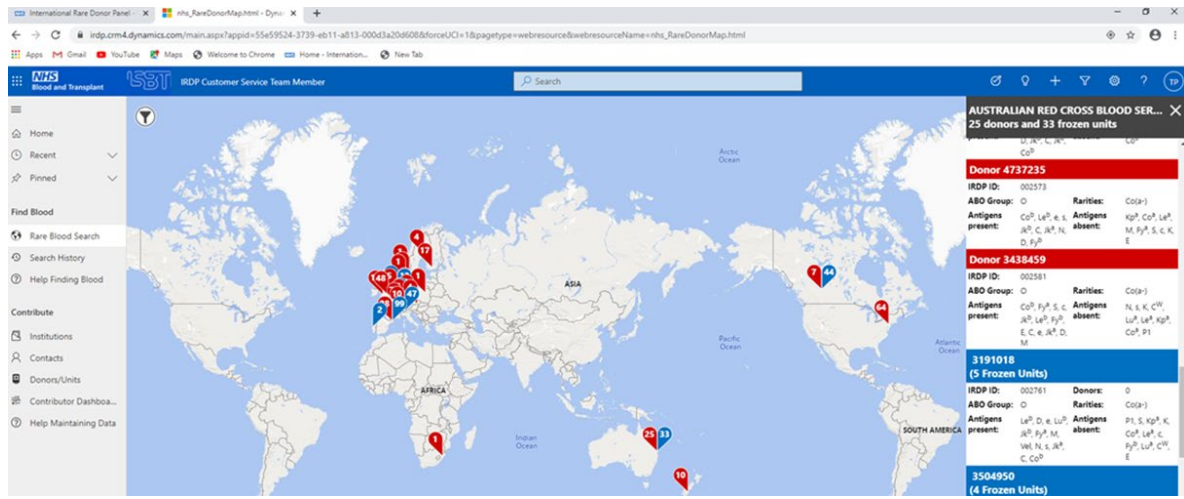
General Information

Freezing Method	Glycerol
Frozen Expiry (years)	10 years, but no component is ever discarded
Storage Temperature	-80 °C
Can inventory be issued and sent frozen	Yes
Thawing Method	Haemonetics ACP 215
Thawed Expiry (days)	1 but may be extended to 3 days
Additive Solution	SAGM
Irradiation Policy	If indicated by recipient or if the donation is directed within a family
IUT and Neonate use	Yes
Supply out of date Policy	N/A

Country/Region:

Product Specifications

Product Specifications	
Volume	280 mL (approx.)
Supernatant Haemoglobin	0.07 g
Haematocrit	EVF 0.4 (0.29 -0.50)
Haemoglobin	2,1 mmol/unit (1.6-2.4)
Osmolarity	N/A
Residual leucocyte content	< 1 x 10E6/unit
Sterility	N/A
Other	N/A



Ordering and Shipping

Country:

Country/Region:

Exporting

Request form available	No
Government Requirements	Government acceptance is not necessary as long as the Regulatory Requirements are fulfilled.
Regulatory Requirements	Blood bank institutions (all hospital based) are only allowed to collect human blood and procure blood components for use for patients in Denmark. However, exporting is allowed to nearby countries in order to meet an acute shortage situation or the need for blood with special subtypes. (LOV nr 295 af 27/04/2005)
Rare Donor Program Requirements	N/A
Other	

Country/Region:

Importing

Importing	
Government Requirements	
Regulatory Requirements	Any import of blood and blood components from third countries must meet the same quality and safety standards as the national standards set out in "BEK nr 1230 af 08/12/2005"
Rare Donor Program Requirements	N/A
Other	