

BLOOD FRACTIONATION FOR IVD



H2B

novacap group

H2B, BLOOD FRACTIONATION FOR IVD

Located in Limoges (France), H2B manufactures fractionated blood products for the life sciences and IVD industries.

Thanks to over 20 years of experience, the company has developed a considerable expertise in blood fractionation, extraction and purification.

Acquisition by Novacap in 2017

Global player in the pharmaceutical synthesis and specialty chemicals, Novacap is an international group operating 27 industrial plants and R&D units, mainly in Europe, Asia and America. Driven by its culture of excellence and by its strong entrepreneurial spirit, Novacap offers its customers the best level of service and high-quality products.



H2B today in a few numbers:

11 

COLLABORATORS

150 

CLIENTS ALL OVER
THE WORLD

OVER
40% 

OF TURNOVER
GENERATED BY EXPORTS

With H2B you receive:

- **batch sampling and reservation** for all products
- team **responsiveness** and **ethical commitment**
- **expertise** and **custom-made products**
- great **batch-to-batch repeatability**

PRODUCT RANGES

HUMAN

- ⦿ Serum & plasma
- ⦿ BaseSerum
- ⦿ Processed Human Sera
- ⦿ Human Serum Albumin

ANIMAL

- ⦿ Bovine Serum Albumin
- ⦿ Bovine Fibrinogen & other RPF components
- ⦿ Fetal Bovine Serum & other animal sera

HUMAN SERUM & PLASMA

Human plasma and **off-the-clot serum** are used in cell culture and as a base matrix for calibrators, controls and standards in IVD applications.

Products Details

Viral tests at donor level	anti-HIV 1+2 & anti-HCV antibodies, HBs antigen, HIV 1 & HCV RNA, Syphilitic serology
Ethics	donor consent, anonymity, gratuitousness
Shelf life	3 years
Filtration	0.2 µm (excepts for units)
Storage	-16°C / -20°C
Preservative	none (added on request)

Features & Benefits

- ⦿ Ethically sourced in EU from healthy donors
- ⦿ Full documentation in compliance with EN 13641
- ⦿ Possibility of gender and blood group selection
- ⦿ No preservative or stabilizer added



Description	Anticoagulant	Ref.	Pack Size
Human Plasma - units	Citrate Phosphate	20000U	Bag (~200 mL)
Human Plasma - pooled	Dextrose	20000P	1 L/4 L
Human Serum - units	-	21000U	Bag (~200 mL)
Human Serum - pooled	-	21000P	1 L/4 L
Human AB male Serum - units	-	21001UM	Bag (~200 mL)
Human AB male Serum - pooled	-	21001PM	100 mL

BASESERUM

H2B manufactures **BaseSerum**, a valuable and cost effective substitute to off-the-clot serum obtained from human plasma.

BaseSerum can be used as a **base matrix** for calibrators, controls and standards in IVD applications.

Products Details

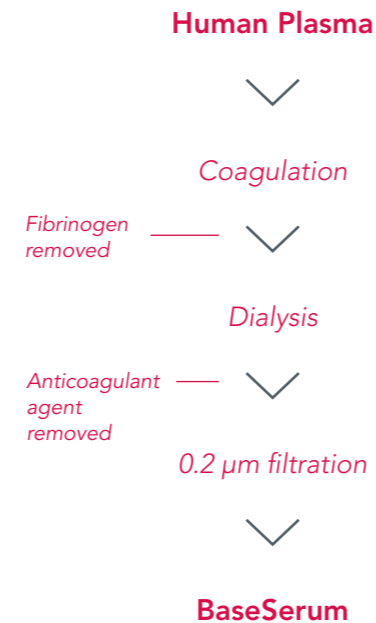
Viral tests at donor level	anti-HIV 1+2 & anti-HCV antibodies, HBs antigen, HIV 1 & HCV RNA, Syphilitic serology
Ethics	donor consent, anonymity, gratuitousness
Fibrinogen	undetectable
Anticoagulant agent	undetectable
Shelf life	2 years
Filtration	0.2 µm
Storage	-16°C / -20°C
Preservative	none (added on request)

Features & Benefits

- Calibrated product with strict in-process control
- Independent of serum availability
- Full documentation in compliance with EN 13641
- No preservative or stabilizer added
- Defibrination without use of animal material

TYPICAL RESULTS

	BaseSerum	OTC serum
Proteins	68 g/L	69 g/L
pH	7.5	7.6
Hemoglobin	22 mg/L	25 mg/L
Osmolality	320 mOsmol/kg	325 mOsmol/kg
Electrophoresis	normal profile	normal profile
Description	Ref.	Pack Size
BaseSerum	30001C	1 L / 4 L



PROCESSED HUMAN SERA

H2B offers a wide range of **human processed sera** selectively depleted to be used as **diluent** or **base matrix** for calibrators and negative controls.

Products Details

Viral tests at donor level	anti-HIV 1+2 & anti-HCV antibodies, HBs antigen, HIV 1 & HCV RNA, Syphilitic serology
Ethics	donor consent, anonymity, gratuitousness
Shelf life	2 years
Filtration	0.2 µm
Storage	-16°C / -20°C
Preservative	none (added on request)

Features & Benefits

- Full documentation in compliance with EN 13641
- Calibrated product with strict in-process control
- Physiologic and calibrated base matrix
- Animal-free reagent
- No preservative or stabilizer added



Description	Defibrinated	Dialysed	Delipidated	Charcoal stripped	Ref.	Pack Size
Defibrinated Delipidated Human Plasma	☑	☑	☑		30010	
Vitamin D Depleted HPS*	☑	☑	☑	☑	33000D	
Steroids Depleted HPS*	☑	☑	☑	☑	33001D	1 L
Hormones Depleted HPS*	☑	☑	☑	☑	34000D	4 L
T3/T4 Depleted HPS*	☑	☑	☑	☑	35000D	
TSH Depleted HPS*	☑	☑	☑	☑	36000D	

*HPS : Human Processed Serum

HUMAN SERUM ALBUMIN

Highly purified **HSA** obtained by a proprietary Heat-Shock method, especially developed for IVD applications.

Due to unique binding properties, HSA can be used in cell culture as **carrier protein** or in immunoassays as **blocking reagent**.

Products Details (liquid form)

Viral tests at donor level	anti-HIV 1+2 & anti-HCV antibodies, HBs antigen, HIV 1 & HCV RNA, Syphilitic serology
Ethics	donor consent, anonymity, gratuitousness
Albumin purity	≥ 97%
Total proteins	> 190 g/L
Shelf life	3 years
Filtration	0.1 µm
Storage	+2°C/+8°C
Preservative	none (added on request)



Features & Benefits

- Specific IVD grade
- Available in liquid (ready to use) or powder
- Customisable to your specifications
- Low vitamin D & folate content

Description	State	Ref.	Pack Size
HSA Standard Grade	20 % solution	31020	1 L
HSA Standard Grade	lyophilized	32000	500 g/1 kg

BOVINE SERUM ALBUMIN

Highly purified **BSA** obtained by a proprietary Heat-Shock method to use as a **protein standard**, **stabilizer** and **blocking** or **buffering agent**. Complete range to meet your needs, available in both **liquid** and **lyophilized forms**.

Products Details (liquid form)

Albumin purity	> 97%
Total proteins	> 290 g/L
Shelf life	3 years
Filtration	0.2 µm
Storage	+2°C/+8°C
Preservative	none (added on request)

Features & Benefits

- 30% BSA solution is ready to use
- Development of customised BSA to match specific application
- Great expertise with over 20 years of manufacturing experience
- Controlled BSE risk



Description	Ref. 30% solution	Ref. lyophilized	Pack Size
BSA Standard Grade	1000-30	1000-70	
BSA Protease Free	1005-30	1005-70	
BSA Low Endotoxin	1010-30	1010-70	
BSA Very Low Endotoxin	1011-30	1011-70	1 L
BSA pH 5.2	1025-30	1025-70	5 L
BSA Fatty Acid Free	1035-30	1035-70	1 kg
BSA Low IgG	1061-30	1061-70	
BSA Polymerized	different references depending on final application		

BOVINE FIBRINOGEN & other RPF components

Bovine Fibrinogen is purified using **Cohn fractionation** and especially developed for producing RPF supplement.

RPF supplement (Rabbit Plasma Fibrinogen), in addition to Baird Parker agar, is used for the detection and enumeration of coagulase-positive staphylococci.

H2B also offers other RPF components separately: **Rabbit Plasma** and **Soybean Trypsin Inhibitor**.

Products Details (liquid form)

Dry extract	> 47.5 g/L
Shelf life	3 years
Filtration	0.2 µm
Storage	-16°C/-20°C



Features & Benefits

- 5% Fibrinogen solution is ready to use
- Liquid form saves time and cost of solubilisation and filtration
- Controlled BSE risk

Description	Ref. solution	Ref. lyophilized	Pack Size
Bovine Fibrinogen	2000-55	2000-70	1 L/4 L/500 g
Bovine Fibrinogen + Soybean Trypsin Inhibitor	2005-55	-	1 L/4 L
Rabbit Plasma, EDTA	2501-50	-	500 mL
Soybean Trypsin Inhibitor	-	2030-70	10 g/100 g

FETAL BOVINE SERUM & other animal sera

Fetal Bovine Serum shows low level of antibodies and high content of embryonic growth factors. It is used as a **serum supplement** for *in vitro* cell culture media.

H2B offers a large range of **animal sera** to meet your needs in **immunoassays**, **immuno-histochemistry** and **immunochemistry**.

Products Details

Shelf life	5 years
Filtration	0.2 µm
Storage	-16°C/-20°C

Features & Benefits

- Fetal Bovine Serum:
 - low level of antibodies, high content of embryonic growth factors
 - biological performance assessed for cell culture
- Numerous species of sera available



Description	Ref.	Pack Size
Fetal Bovine Serum	9215-50	
Bovine Serum	9810-50	
Calf Serum	9815-50	
New Born Calf Serum	9817-50	
Goat Serum	9820-50	500 mL
Sheep Serum	9825-50	
Pig Serum	9840-50	
Horse Serum	9830-50	
Rabbit Serum	2800-50	
Mouse Serum	9880-50	50 mL
Rat Serum	9882-50	100 mL
Guinea Pig Serum	9845-50	500 mL



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