

Manufacturer of Custom-Designed Control Sera



Your OEM Partner for Quality
Immunoassays Controls

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BIOCHEMICAL REFERENCE MATERIAL

Manufacturer of Custom-Designed Control Sera

BIOREF GmbH has more than 35+ years experience as manufacturer of third party controls.

Our “ready-to-use” controls are liquid & stable human control sera for immunoassays tailored to your needs.

Our QM system is certified according to ISO 13485. Our laboratories and offices are located 50 km east of Frankfurt am Main international airport – right in the middle of Germany.

Tailor-made controls for immunoassays

We have a great expertise in the production of tailor-made controls serving the specific needs of our customers for high quality controls for POCT, Companion Diagnostics and OEM.

Based on our extensive experience we produce liquid “ready-to-use” human control sera, which are very stable, for

- Proficiency Studies Providers
- Test Kit Manufacturers
- Pharmaceutical Companies

“The purpose of quality control is to monitor the analytical quality of a procedure, detect changes and eliminate reporting results with medically important errors”¹

¹ Westgard JO, Barry PL. Cost-Effective Quality Control: Managing the Quality and Productivity of Analytical Processes

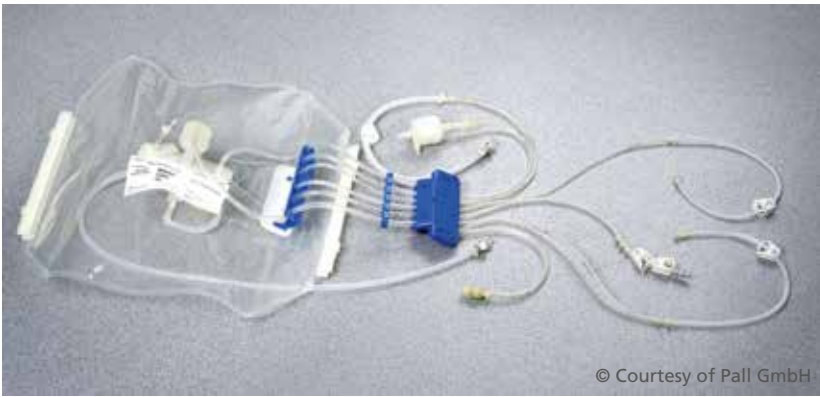
With BIOREF’s quality controls you can be sure that the results you generate are accurate!

IMMUNOASSAY QUALITY CONTROLS

Custom-designed, liquid & stable

SOME EXAMPLES

- Tumor Marker Control
- Hormone Control
- Allergy Control
- Plasma Protein Control
- CSF (Cerebrospinal Fluid) Control
- Cardiac Marker Control
- Thyroid Hormone Control



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Analytes for your Immunoassay Controls

Acetaminophen	d 01	IgA	Quinidin
AFP	d 02	IgE	
Albumin	D-Dimer	IgG	Retinol Binding Protein
Aldosterone	DHEA-Sulfate	IgM	Rheumatoid Factor
Amikacin	Digoxin	Insulin	
α_1 -Antitrypsin	Disopyramide		S100
Antithrombin III		λ -Light Chains	Salicylate
Antistreptolysin O	e 01	κ -Light Chains	SCC
Apo A1	Estradiol		Sodium
Apo B	Estriol	Lactate	
	Ethosuximide	LH	T 3 free
BNP		Lidocaine	T 3 total
	f 02		T 4 free
Complement C 3	f 13	α_2 -Macroglobulin	T 4 total
Complement C 4	f 17	β_2 -Microglobulin	Testosterone
CA 15-3	Ferritin	Myoglobin	Theophylline
CA 19-9	Folate		Thyroglobulin
CA 50	FSH	NAPA	Tobramycin
CA 72-4		NSE	TPA
CA 125	g 06	NT-proBNP	TPS
Calcitonin	g 12		Transferrin
CASA	Gentamycin	Phenobarbital	Transferrin Receptor
Carbamacepine	hGH	Phenytoin	Troponin I
CEA	Glucose	Potassium	Troponin T
Chloramphenicol	α_1 -Glycoprotein	Prealbumin	TSH
CK-MB		Primidone	
Chloride	Haptoglobin	Procainamide	Valproic Acid
Coeruloplasmin	β -HCG	Progesterone	Vancomycin
Cortisol	HE 4	pro GRP	Vitamin B12
CRP	Hemopexin	Prolactin	
Cyfra 21-1	Her2/neu	PSA	w 06
	Homocysteine		
	Hydroxyprogesterone		

Competencies

Manufacturer of Custom-Designed Control Sera

- More than 35 years of experience
- ISO 13485

Example Allergy Control

- Matrix: Liquid human serum,
- Shelf Life: 5 years at -20° C
- Stability: 6 months at 4° C

Example Tumor Marker Control

- Matrix: Liquid human serum
- Shelf Life: 5 years at -20° C
- Stability: 5 years at 4° C

Tailor-made Quality Control Sera for Immunoassays with

- Cardiac Markers
- Thyroid Markers
- Tumor Markers
- Hormones
- CSF (Cerebrospinal Fluid) Control
- Allergy Control

Our Controls are very stable and "ready-to-use"

Examples for Control Sera with some information

Product Name	Analytes			Details	
Tumor Marker Control	AFP CA 15-3 CA 72-4 PSA TPS	CA 19-9 CEA Ferritin SCC	CA 125 Cyfra 21-1 HCG TPA	Form: Matrix:	liquid Human Serum
				Shelf Life: Stability: Shipment:	5 years at -20°C 5 years at 4°C ambient Temp.
Allergy Control	d 01 g 06 f 13	d 02 g 12 f 17	e 01 f 02 w 06	Form: Matrix:	liquid Human Serum
				Shelf Life: Stability: Shipment:	5 years at -20°C 6 months at 4°C ambient Temp.
Plasma Protein Control	Albumin Apo A1* C 3 CRP Haptoglobin IgE α2-Macroglob. κ-Light Chains Rheumat. Factor	α1-Antitrypsin Apo B C 4 Ferritin Hemopexin IgG β2-Microglob. Prealbumin Transferrin	Antithrombin III ASLO Coeruloplasmin* α1-Glycoprotein IgA IgM λ-Light Chains Retinol Bdg Prot. Transferrin Rec.	Form: Matrix:	liquid Human Serum
				Shelf Life: Stability: Shipment:	5 years at -20°C 9 months at 4°C (*1-3 months) ambient Temp.
CSF (Cerebrospinal Fluid) Control	Albumin IgA Lactate Sodium	Chloride IgG Potassium	Glucose IgM Protein	Form: Matrix:	liquid Human Serum
				Shelf Life: Stability: Shipment:	5 years at -20°C 12 months at 4°C ambient Temp.
Cardiac Marker Control	CK-MB NT-proBNP	Homocysteine Troponin I	Myoglobin Troponin T	Form: Matrix:	liquid Human Serum
				Shelf Life: Stability: Shipment:	5 years at -20°C 4-30 days at 4°C Dry Ice
Thyroid Hormone Control	Thyroglobulin free T3	TSH total T4	total T3 free T4	Form: Matrix:	liquid Human Serum
				Shelf Life: Stability: Shipment:	5 years at -20°C 6 months at 4°C ambient Temp.
Hormone Control	Aldosterone Cortisol Estriol HCG Hydroxyprogest. LH Testosterone free T4	AFP DHEA-Sulfate Ferritin β-HCG IgE Progesterone TSH Vitamin B12	CK-MB Estradiol FSH hGH Insulin Prolactin free T3	Form: Matrix:	liquid Human Serum
				Shelf Life: Stability: Shipment:	5 years at -20°C 6 months at 4°C ambient Temp.

trust and verify



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