

## Examples for Control Sera with some information

Product Name	Analytes			Details
<b>Tumor Marker Control</b> 4 x 3 ml	AFP CA 15-3 CA 72-4 Ferritin SCC	CASA CA 19-9 CEA HCG TPA	CA 125 CA 50 Cyfra 21-1 PSA TPS	Form: liquid Matrix: Human Serum Levels: 2 Shelf Life: 5 years at 4°C Stability: 5 years at 4°C Shipment: ambient Temp.
<b>Allergy Control</b> 4 x 2 ml	d 01 g 06 f 13	d 02 g 12 f 17	e 01 f 02 w 06	Form: liquid Matrix: Human Serum Levels: 2 Shelf Life: 5 years at -20°C Stability: 6 months at 4°C Shipment: ambient Temp.
<b>Plasma Protein Control</b> 3 x 2 ml	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: liquid Matrix: Human Serum Levels: 3 Shelf Life: 5 years at -20°C Stability: 9 months at 4°C Shipment: (*1-3 months) ambient Temp.
<b>CSF (Cerebrospinal Fluid) Control</b> 3 x 2 ml	Albumin IgA Lactate Sodium	Chloride IgG Potassium	Glucose IgM Protein	Form: liquid Matrix: Human Serum Levels: 3 Shelf Life: 5 years at -20°C Stability: 12 months at 4°C Shipment: ambient Temp.
<b>Cardiac Marker Control</b> 4 x 2 ml	CK-MB NT-proBNP	Homocysteine Troponin I	Myoglobin Troponin T	Form: liquid Matrix: Human Serum Levels: 2 Shelf Life: 5 years at -20°C Stability: 4-30 days at 4°C Shipment: Dry Ice
<b>Thyroid Hormone Control</b> 3 x 3 ml	Thyroglobulin free T3	TSH total T4	total T3 free T4	Form: liquid Matrix: Human Serum Levels: 3 Shelf Life: 5 years at -20°C Stability: 6 months at 4°C Shipment: ambient Temp.
<b>Hormone Control</b> 3 x 6 ml	Aldosterone Cortisol Estriol HCG Hydroxyprogest. LH Testosterone free T3 Vitamin B12	AFP DHEA-Sulfate Ferritin β-HCG IgE Progesterone TSH total T4	CK-MB Estradiol FSH hGH Insulin Prolactin total T3 free T4	Form: liquid Matrix: Human Serum Levels: 3 Shelf Life: 5 years at -20°C Stability: 6 months at 4°C Shipment: ambient Temp.

trust and verify



# Manufacturer of Custom-Designed Quality Control Sera



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BIOCHEMICAL REFERENCE MATERIAL

## Manufacturer of Custom-Designed Control Sera

**BIOREF GmbH has more than 30+ 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 9001 and ISO 13485. The mdc audit has proven that our quality system meets all requirements according the European In-Vitro-Diagnostics Directive 98/79/EC. 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

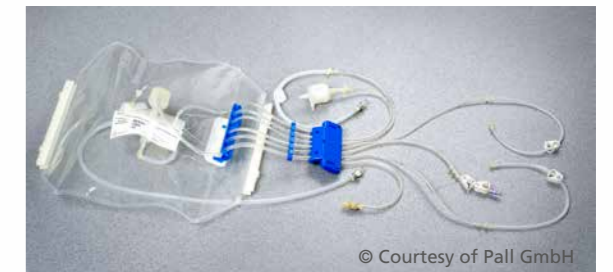
We have a great expertise in the production of tailor-made controls serving the specific needs of our customers for high quality controls for POCT, Companion Diagnostics and OEM.

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

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

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



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

## Analytes for your Immunoassay Control

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 <sub>1</sub> -Antitrypsin	Disopyramide		S100
Antithrombin III		λ-Light Chains	Salicylate
Antistreptolysin O	e 01	κ-Light Chains	SCC
Apo A1	Estradiol		Sodium
Apo B	Estrinol	Lactate	
	Ethosuximide	LH	T 3 free
BNP	f 02	Lidocaine	T 3 total
	f 13		T 4 free
Complement C 3	f 17	α <sub>2</sub> -Macroglobulin	T 4 total
Complement C 4	Ferritin	β <sub>2</sub> -Microglobulin	Testosterone
CA 15-3	Folate	Myoglobin	Theophylline
CA 19-9	FSH		Thyroglobulin
CA 50		NAPA	Tobramycin
CA 72-4	g 06	NSE	TPA
CA 125	g 12	NT-proBNP	TPS
Calcitonin	Gentamycin		Transferrin
CASA	hGH	Phenobarbital	Transferrin Receptor
Carbamacepine	Glucose	Phenytoin	Troponin I
CEA	α <sub>1</sub> -Glycoprotein	Potassium	Troponin T
Chloramphenicol		Prealbumin	TSH
CK-MB	Haptoglobin	Primidone	
Chloride	β-HCG	Procainamide	Valproic Acid
Coeruloplasmin	HE 4	Progesterone	Vancomycin
Cortisol	Hemopexin	pro GRP	Vitamin B12
CRP	Her2/neu	Prolactin	
Cyfra 21-1	Homocysteine	PSA	w 06
	Hydroxyprogesterone		

## Competencies

### Manufacturer of Custom-Designed Control Sera

- More than 30 years of experience
- ISO 13485 and ISO 9001

### Example Allergy Control

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

**Our Controls are very stable and “ready-to-use”**

### 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
- Therapeutic Drugs
- CSF (Cerebrospinal Fluid) Control
- Allergy Control

# IMMUNOASSAY QUALITY CONTROL

Custom-designed, liquid & stable

## SOME EXAMPLES

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