

neoFroxx GmbH

Marie-Curie-Str. 3
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www.neofroxx.com

Specification

Product	Fetal Calf Serum (FBS, origin Brazil), optimized for cell biology
Brand	BioFroxx

Product number	2347 (revised)
Origin	Brazil
Storage	-20°C
Retest period (months)	60

*** research use only ***

Physical and Chemical Analysis

Parameter	Specifications
Appearance	Clear yellow-amber
pH	6.8 - 8.2
Osmolality	280 – 340 mOsm/kg
Endotoxin	Test and Report
Free Hemoglobin	< 25 mg/dl

Protein Profile

Parameter	Specifications
Total Protein	3.0 - 4.5 g/dl
Albumin	1.4– 3.4 g/dl
Globulin	0.4–2.4 g/dl
IgG	< 400 ug/ml

Sterility

Parameter	Specifications
Aerobic Bacteria	Not detected
Anaerobic Bacteria	Not detected
Fungi (Yeast & Mold)	Not detected
Mycoplasma	Not detected

Antibiotics

Parameter	Specifications
Tetracycline	Test and Report
Oxytetracycline	Test and Report
Chlortetracycline	Test and Report

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Antibodies	
Parameter	Specifications
BVDV-1	Test and Report
BVDV-2	Test and Report
PIV3	Test and Report
IBR	Test and Report
BLV	Test and Report

Virus Testing	
Parameter	Specifications
BHV-1	Test and Report
BVDV	Test and Report
PIV 3	Test and Report
IBR	Test and Report

Biochemistry	
Parameter	Specifications
Aspartate Aminotransferase (AST)	Test and Report
Alanine Aminotransferase (ALT)	Test and Report
Lactate Dehydrogenase (LDH)	Test and Report
Alkaline Phosphatase (ALKP)	Test and Report
Gamma-Glutamyl Transferase (GGT)	Test and Report
Cholesterol (CHOL)	Test and Report
Glucose (GLU)	Test and Report
Urea (BUN)	Test and Report
Creatinine (CREA)	Test and Report
Uric Acid (URIC)	Test and Report
Calcium (Ca)	Test and Report
Phosphorus (PHOS)	Test and Report
Total Bilirubin [TBIL]	Test and Report
Magnesium (Mg)	Test and Report
Sodium (Na)	Test and Report
Potassium (K)	Test and Report
Chloride (CL)	Test and Report
Triglyceride (Trig)	Test and Report

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Specification

Cell-Culture Test	
Cell Line	Specifications
L-929	Morphology ¹ (vs. Control Serum)
HELA	Morphology ¹ (vs. Control Serum)
MRC-5	Morphology ¹ (vs. Control Serum)
L-929	Density ² (vs. Control Serum)
HELA	Density ² (vs. Control Serum)
MRC-5	Density ² (vs. Control Serum)
L-929	Cell Count [\log_{10}/ml]/dead cells [%]
HELA	Cell Count [\log_{10}/ml]/dead cells [%]
BHK-21	Morphology ¹ (vs. Control Serum)
CHO	Morphology ¹ (vs. Control Serum)
SP2/0	Morphology ¹ (vs. Control Serum)
BHK-21	Density ² (vs. Control Serum)
CHO	Density ² (vs. Control Serum)
SP2/0	Density ² (vs. Control Serum)
BHK-21	Cell Count [\log_{10}/ml]/dead cells [%]
CHO	Cell Count [\log_{10}/ml]/dead cells [%]
SP2/0	Cell Count [\log_{10}/ml]/dead cells [%]

Scoring System (Tested vs. Control Serum):

¹0 = dead cells;
1 = many cells degenerate and many dead cells;
2 = cells partially degenerate and many dead cells;
3 = few cells degenerate and few dead cells;
4 = w/o pathological findings

²0 single cells/cell aggregates;
1 = < 50% confluency;
2 = 50 - 90% confluency;
3 = confluency;
4 = overly confluent

Einhausen, 05.10.2021