

Certificate of Analysis

FBS Standard

US Origin

0.1 µm sterile filtered

Product	Description	Catalogue-No.	Size
FBS Standard	Fetal bovine serum, US Origin, 0.1 µm sterile filtered	ST30-1505 ST30-1506	100 ml 500 ml

Lot No.: ST230302

Storage, stability, shipping:

Storage: -20 °C
 Stability: 03/2028
 Shipping: on dry ice

Parameter	Result	Units
pH value	6.9	n.a.
Osmolality	325	mOsm/kg
Hemoglobin	31.95	mg/100 ml
Endotoxin	5.77	EU/ml
Total protein	37.0	mg/ml
Albumin	15.0	mg/ml
alpha-Globulin	17.0	mg/ml
beta-Globulin	4.0	mg/ml
IgG	217.2	µg/ml
Glucose	174.0	mg/100 ml
Cholesterol	31.0	mg/100 ml
Triglycerides	102.0	mg/100 ml

	Specification	Result
Sterility Incubation at 32 °C	sterile	sterile
Incubation at 20 °C	sterile	sterile
Mycoplasma	not detected	not detected
Virus testing		
Bovine viral diarrhoea virus (BVDV)	negative	negative
Bovine herpes virus (BHV-1)	negative	negative
Para-influenza virus type 3 (PI-3)	negative	negative
Bluetongue virus (BTV)	negative	negative
Bovine adenovirus (BAV)	negative	negative
Bovine parvovirus (BPV)	negative	negative
Bovine respiratory syncytial virus (BRSV)	negative	negative
Rabies virus	negative	negative
Reovirus (RV-3)	negative	negative

Performance	Results
Cell type: SP2/0-Ag14, Day 3	106.3 %
Cell type: MRC-5, Day 5	96.7 %
Cell type: CHO K1, Day 3	100.7 %
Relative Colony Forming Efficiency	91.4 %
Absolute Colony Forming Efficiency	72.8 %
Relative Cloning Efficiency	117.0 %
Absolute Cloning Efficiency	53.6 %

TABLE 1:

Test	Method
pH value	Measured with pH-electrode
Osmolality	Analyzed by freezing point depression
Hemoglobin	Determined spectrophotometrically at three different wave lengths
Endotoxin	Kinetic limulus amoebocyte lysate test (LAL)
Total protein	Colorimetric test (Biuret reaction)
Albumin, Globulins	Serum protein electrophoresis (SPEP)
IgG	ELISA
Glucose	Colorimetric test
Cholesterol	Colorimetric test
Triglycerides	Colorimetric test
Sterility	The absence of bacterial or fungal contamination is verified by dual incubation with Caso-Bouillon or Thioglycolat-Bouillon according to Ph. Eur. at 32°C and 20 °C
Mycoplasma	qPCR of microbial cultures
Cell growth	Growth test of specific cells

Suitability

FOR RESEARCH USE ONLY!

These products are intended for research or manufacturing use only.

Not for use in animal or human clinical or diagnostic application.

Raw material is collected in regularly inspected facilities and processed by PAN Seratech in compliance with current Ph. Eur. guidelines for Bovine Sera. Processing of raw material into finished serum product is performed by employees of PAN Seratech.

Since raw serum is not pre-aged before filtration, turbidity or flocculent debris in form of precipitate may develop upon thawing or storage of the product. This occurrence does not adversely affect the performance of the serum.

Results shown in this compilation have been obtained by carefully performing standard test methods (see table 1). Since results for any specific test may vary depending on methodology, technical equipment, or test substances used, it is suggested that results for particularly important parameters be repeated by the end user of this product.

* n.a. = not available

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