

Certificate of Analysis

FBS Standard

South America Origin (Uruguay)

Cat No.:	B118-100 / B118-500	Lot No.:	H24121101
Production Date:	11 th December, 2024	Expiry Date:	10 th December, 2029
Storage:	-15 °C or below	Page:	1 / 2

Physical and Chemical Analysis

	Specifications	Results
Appearance	Clear amber liquid	Clear amber liquid
pH ^[1]	6.7 – 8.0	7.87
Osmolality ^[2]	260 -340 mOsmol/kg	319 mOsmol/kg
Endotoxin ^[3]	< 30 EU/ml	<1 EU/ml
Hemoglobin ^[4]	< 25 mg/100ml	7.41 mg/100ml

Protein Profile

	Specifications	Results
Total Protein ^[5]	30 - 50 g/L	34.40 g/L
IgG ^[6]	<350 µg/ml	115.6 µg/ml

Sterility Testing

	Specifications	Results
Sterility ^[7]	not detected	not detected
Mycoplasma ^[8]	not detected	not detected

Virus Testing

	Specifications	Results
Bovine Viral Diarrhea virus ^[9]	not detected	not detected
Infectious Bovine Rhinotracheitis ^[10]	not detected	not detected
Bluetongue virus ^[10]	not detected	not detected
Parainfluenza virus 3 ^[10]	not detected	not detected
Bovine Leukaemia virus ^[10]	not detected	not detected
Bovine Herpesvirus 1 ^[10]	not detected	not detected
Reovirus ^[10]	not detected	not detected
Hemadsorption ^[11]	not detected	not detected
Cytopathic Effect ^[11]	not detected	not detected

Cat No.: B118-100 / B118-500
Production Date: 11th December, 2024
Storage: -15 °C or below

Lot No.: H24121101
Expiry Date: 10th December, 2029
Page: 2 / 2

Cell-Culture Tests

		Specifications	Results
Growth Rate		> 80%	89.1%
Cloning Efficiency (SP2/0-Ag14)		> 70%	80.2%
Cell Growth(SP2/0-Ag14)	Seed	Day 3	Day 6 [cells per ml]
Lot No.H24121101	2.00 x 10 ⁵	1.63 x 10 ⁶	7.95 x 10 ⁶
Control Serum	2.00 x 10 ⁵	1.45 x 10 ⁶	7.15 x 10 ⁶
Cell Growth(293T)	Seed	Day 3	Day 6 [cells per ml]
Lot No.H24121101	1.50 x 10 ⁵	1.22 x 10 ⁶	1.15 x 10 ⁷
Control Serum	1.50 x 10 ⁵	1.05 x 10 ⁶	1.06 x 10 ⁷

<https://nobimpex.de/en/>

References

- | | |
|--|--|
| [1] Potentiometric Determination; Current Edition EP | [8] Culture + Indicator Cell Assay |
| [2] Freeze-Point Depression; Current Edition EP | [9] Cytopathic Effect in Cell Culture and Immunofluorescence |
| [3] Gel-clot technique; Current Edition EP | [10] Immunofluorescence + NAT |
| [4] Spectrophotometric Method | [11] Cell Culture Method |
| [5] Determination by Biuret ; Current Edition EP | |
| [6] ELISA | |
| [7] Direct Inoculation; Current Edition EP | |

These signatures indicate the material mentioned above has met specifications and has been reviewed by the quality unit.

Signature: 
Position: QC inspector
Issue date: 24th January, 2025

Signature: 
Position: Approver
Issue date: 24th January, 2025