

CERTIFICATE OF ANALYSIS

Fetal Bovine Serum (French Origin), Exosome Depleted

Batch N° :	016BS930	Storage :	-20°C
Catalog N° :	FB-1280M/500	Filtration :	0.2 µm
Validation Date :	01 / 07 / 2021	Origin :	FRANCE
Expiry date :	22 / 11 / 2025		

QUALITY PROFILE				
Tests	Methods	Units	Specifications	Results
Exosomes Depletion Appearance	Elisa test	%	≥ 95 Clear straw to amber liquid	99.86 Clear straw to amber liquid
Bacteria and Fungi	Culture		Not detected	Not detected
Mycoplasma	Culture		Not detected	Not detected
pH	Internal validated method		7.3 ± 0.5	7.23
Osmolality	Freezing point . EU Ph. 2.2.35	mOsm/kg	310 ± 35	310
Endotoxin	Chromokinetic test . Method D of EU Ph. 2.6.14	EU/ml		0.532
Haemoglobin	Internal validated method	mg/100ml	< 30	10.34
Total protein	Biuret colorimetry	g/l		26.7
Pestivirus (e.g. BVDV-1, BVDV-2, BDV, CSFV, Giraffe-1 and Hobi-like viruses)	Cell culture observation and IFA		Tested	Tested
Cytopathogenic Agents eg. IBR / BHV-1	Cell culture observation		Not detected	Not detected
Haemadsorbing Agents eg. PI3 virus	Cell culture observation		Not detected	Not detected

CHEMICAL PARAMETERS				
Tests	Methods	Units	Specifications	Results
ALAT (SGPT)	UV kinetic at 37°C	IU/l		6
Alkaline Phosphatase	Colorimetry kinetic at 37°C	IU/l		137
ASAT (SGOT)	UV kinetic at 37°C	IU/l		22
Bilirubin	DPD / cafeine colorimetry	mg/100ml		0.1
Calcium	Arsénazo colorimetry	mg/100ml		12.8
Gamma GT	Colorimetry kinetic at 37°C	IU/l		< 4
Cholesterol	Cholesterase Trinder colorimetry	mg/100ml		< 7
Creatinine	Colorimetry Kinetic (Jaffé)	mg/100ml		2.7
Chloride	Indirect potentiometry	mmol/l		99
Glucose	Hexokinase UV	mg/100ml		141
Iron	TPTZ colorimetry	µg/100ml		167
Lactate Dehydrogenase	UV kinetic at 37°C	IU/l		294
Phosphorus	Phosphomolybdate colorimetry	mg/100ml		10.7
Potassium	Indirect potentiometry	mmol/l		14.0
Sodium	Indirect potentiometry	mmol/l		132
Triglycerides	Glycerokinase Trinder colorimetry	mg/100ml		85
Urea	Urease UV	mg/100ml		33
Uric Acid	Uricase trinder colorimetry	mg/100ml		3.0

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PROTEIN ELECTROPHORESIS				
Tests	Methods	Units	Specifications	Results
Albumin	Immunoturbidimetry	g/l		12.0
Alpha Globulins	Immunoturbidimetry	g/l		9.2
Beta Globulins	Immunoturbidimetry	g/l		5.3
Gamma Globulins	Immunoturbidimetry	g/l		0.2

ELISA TEST				
Tests	Methods	Units	Specifications	Results
IgG	ELISA test	mg/l		81.0

BIOLOGICAL PERFORMANCE				
Tests	Methods	Units	Specifications	Results
L929 cell growth : 3rd day	Internal validated method	%		118
L929 cell growth : 6th day	Internal validated method	%		91
SP2/O-Ag14 cell growth : 3rd day	Internal validated method	%		82
SP2/O-Ag14 cell growth : 6th day	Internal validated method	%		125
HELA cell growth : 3rd day	Internal validated method	%		95
HELA cell growth : 6th day	Internal validated method	%		111
MRC-5 cell growth : 3rd day	Internal validated method	%		91
MRC-5 cell growth : 6th day	Internal validated method	%		66
Plating efficiency - cells implanted	Internal validated method		500	500
Plating efficiency - number of colonies	Internal validated method			349
Plating efficiency - PE absolute	Internal validated method	%		70
Plating efficiency - PE relative	Internal validated method	%		102
Cloning efficiency - cells implanted per well	Internal validated method		1	1
Cloning efficiency - number of clones	Internal validated method			59
Cloning efficiency - CE absolute	Internal validated method	%		61
Cloning efficiency - CE relative	Internal validated method	%		91

Fetal bovine serum has been triple filtered on 0.1µm filters before treatment.
 All fetal bovine sera are collected from registered slaughterhouses under the supervision of government veterinary authorities.
 All sera are collected from EU approved countries

Laura CAILLEAU
 Quality Service



Date : 13/07/2021