

CERTIFICATE OF ANALYSIS

Fetal Bovine Serum (EU Origin), E.V. Depleted - 50ml

Tests performed before treatment

Batch N°	S0007	Storage	-20°C
ID N°	S00071	Filtration	0.2 µm
Material N°	FB-1280M/50	Batch size	8,55 L
Validation date	10-JAN-2023	Origin	France
Expiry date	09-JAN-2028		

QUALITY PROFILE				
Tests	Methods	Units	Specifications	Results
E.V. Depletion	ELISA test	%	95,0 - 100,0	99,9
Appearance	Visual Control	-	Clear straw to amber liquid	Conform
Bacteria and Fungi	Culture	-	Not detected	Not detected
Mycoplasma	Culture	-	Not detected	Not detected
pH	Internal validated method	-	6,80 - 8,00	7,65
Osmolality	Freezing point . EU Ph. 2.2.35	mOsm/kg	275 - 345	306
Endotoxin	Chromokin. test Method D of EU Ph.2.6.14	EU/ml	For information	< 0,200
Haemoglobin	Internal validated method	mg/100ml	0,00 - 30,00	18,42
Total protein	Biuret colorimetry	g/l	For information	25,9
Pestivirus eg. BVD virus	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	For information	7
Alkaline Phosphatase	Colorimetry kinetic at 37°C	IU/l	For information	100
ASAT (SGOT)	UV kinetic at 37°C	IU/l	For information	38
Bilirubin	DPD / caffeine colorimetry	mg/100ml	For information	0,15
Calcium	Arsénazo colorimetry	mg/100ml	For information	12,4
Gamma GT	Colorimetry kinetic at 37°C	IU/l	For information	< 4
Cholesterol	Cholesterase Trinder colorimetry	mg/100ml	For information	< 7,0
Creatinine	Colorimetry Kinetic (Jaffé)	mg/100ml	For information	2,7
Chloride	Indirect potentiometry	mmol/l	For information	98
Glucose	Hexokinase UV	mg/100ml	For information	134,0
Iron	TPTZ colorimetry	µg/100ml	For information	158
Lactate Dehydrogenase	UV kinetic at 37°C	IU/l	For information	287
Phosphorus	Phosphomolybdate colorimetry	mg/100ml	For information	11,1
Potassium	Indirect potentiometry	mmol/l	For information	14,5
Sodium	Indirect potentiometry	mmol/l	For information	131
Triglycerides	Glycerokinase Trinder colorimetry	mg/100ml	For information	86,0
Urea	Urease UV	mg/100ml	For information	33,0
Uric Acid	Uricase trinder colorimetry	mg/100ml	For information	3,2

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PROTEIN ELECTROPHORESIS				
Tests	Methods	Units	Specifications	Results
Albumin	Immunoturbidimetry	g/l	For information	11,6
Alpha Globulins	Immunoturbidimetry	g/l	For information	10,3
Beta Globulins	Immunoturbidimetry	g/l	For information	3,8
Gamma Globulins	Immunoturbidimetry	g/l	For information	0,2

ELISA TEST				
Tests	Methods	Units	Specifications	Results
IgG	ELISA test	mg/l	For information	48,0

BIOLOGICAL PERFORMANCE				
Tests	Methods	Units	Specifications	Results
L929 cell growth : 3rd day	Internal validated method	%	For information	102
L929 cell growth : 6th day	Internal validated method	%	For information	103
SP2/O-Ag14 cell growth : 3rd day	Internal validated method	%	For information	75
SP2/O-Ag14 cell growth : 6th day	Internal validated method	%	For information	99
HELA cell growth : 3rd day	Internal validated method	%	For information	107
HELA cell growth : 6th day	Internal validated method	%	For information	95
MRC-5 cell growth : 3rd day	Internal validated method	%	For information	64
MRC-5 cell growth : 6th day	Internal validated method	%	For information	50
Plating efficiency -cells implanted	Internal validated method	-	500	500
Plating efficiency - number of colonies	Internal validated method	-	For information	388
Plating efficiency - PE absolute	Internal validated method	%	For information	78
Plating efficiency - PE relative	Internal validated method	%	For information	101
Cloning efficiency -cells implanted/well	Internal validated method	-	1	1
Cloning efficiency - number of clones	Internal validated method	-	For information	48
Cloning efficiency - CE absolute	Internal validated method	%	For information	50
Cloning efficiency - CE relative	Internal validated method	%	For information	87

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

LCAILLEAU
 Quality Department
 Date

21-FEB-2023

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