

**CERTIFICATE OF ANALYSIS**

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

Batch N°	S00PE	Storage	-20°C
ID N°	S00PE1	Filtration	0.2 µm
Material N°	FB-1280M/50	Batch size	12,65 L
Production date	19-JUN-2023	Origin	France
Expiry date	17-JUN-2028		

<b>QUALITY PROFILE</b>				
Tests	Methods	Units	Specifications	Results
E.V. Depletion	ELISA test	%	95,0 - 100,0	99,8
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	7,60
Osmolality	Freezing point . EU Ph. 2.2.35	mOsm/kg	275 - 345	301
Endotoxin	Chromokin. test Method D of EU Ph.2.6.14	EU/ml	For information	0,208
Haemoglobin	Internal validated method	mg/100ml	0,00 - 30,00	13,97
Total protein	Biuret colorimetry	g/l	For information	26,0
Pestivirus eg.BVD virus	Cell culture observation and IFA	-	Not detected	Not detected
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

<b>CHEMICAL PARAMETERS</b>				
Tests	Methods	Units	Specifications	Results
ALAT (SGPT)	UV kinetic at 37°C	IU/l	For information	< 6
Alkaline Phosphatase	Colorimetry kinetic at 37°C	IU/l	For information	107
ASAT (SGOT)	UV kinetic at 37°C	IU/l	For information	36
Bilirubin	DPD / caffeine colorimetry	mg/100ml	For information	0,10
Calcium	Arsénazo colorimetry	mg/100ml	For information	12,2
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	97
Glucose	Hexokinase UV	mg/100ml	For information	131,0
Iron	TPTZ colorimetry	µg/100ml	For information	164
Lactate Dehydrogenase	UV kinetic at 37°C	IU/l	For information	273
Phosphorus	Phosphomolybdate colorimetry	mg/100ml	For information	11,0
Potassium	Indirect potentiometry	mmol/l	For information	14,6
Sodium	Indirect potentiometry	mmol/l	For information	129
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	3,0

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<b>PROTEIN ELECTROPHORESIS</b>				
Tests	Methods	Units	Specifications	Results
Albumin	Immunoturbidimetry	g/l	For information	11,8
Alpha Globulins	Immunoturbidimetry	g/l	For information	5,5
Beta Globulins	Immunoturbidimetry	g/l	For information	8,4
Gamma Globulins	Immunoturbidimetry	g/l	For information	0,2

<b>ELISA TEST</b>				
Tests	Methods	Units	Specifications	Results
IgG	ELISA test	mg/l	For information	61,0

<b>BIOLOGICAL PERFORMANCE</b>				
Tests	Methods	Units	Specifications	Results
L929 cell growth : 3rd day	Internal validated method	%	For information	85
L929 cell growth : 6th day	Internal validated method	%	For information	93
SP2/O-Ag14 cell growth : 3rd day	Internal validated method	%	For information	88
SP2/O-Ag14 cell growth : 6th day	Internal validated method	%	For information	95
HELA cell growth : 3rd day	Internal validated method	%	For information	84
HELA cell growth : 6th day	Internal validated method	%	For information	62
MRC-5 cell growth : 3rd day	Internal validated method	%	For information	92
MRC-5 cell growth : 6th day	Internal validated method	%	For information	72
Plating efficiency -cells implanted	Internal validated method	-	500	500
Plating efficiency - number of colonies	Internal validated method	-	For information	269
Plating efficiency - PE absolute	Internal validated method	%	For information	54
Plating efficiency - PE relative	Internal validated method	%	For information	83
Cloning efficiency -cells implanted/well	Internal validated method	-	1	1
Cloning efficiency - number of clones	Internal validated method	-	For information	79
Cloning efficiency - CE absolute	Internal validated method	%	For information	82
Cloning efficiency - CE relative	Internal validated method	%	For information	111

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 18-JUL-2023

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