

**CERTIFICATE OF ANALYSIS**  
**Fetal Bovine Serum (EU Origin) - 500ml**

Batch N°	SF-S00ND	Storage	-20°C
ID N°	S00ND10009	Filtration	Triple 0.1 µm filtered
Material N°	SF1400-500	Batch size	1040,00 L
Production date	25-OCT-2022	Origin	France
Expiry date	24-OCT-2027		

QUALITY PROFILE				
Tests	Methods	Units	Specifications	Results
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	7,39
Osmolality	Freezing point . EU Ph. 2.2.35	mOsm/kg	280 - 345	315
Endotoxin	Chromokin. test Method D of EU Ph.2.6.14	EU/ml	For information	1,042
Haemoglobin	Internal validated method	mg/100ml	For information	19,55
Total protein	Biuret colorimetry	g/l	25,0 - 55,0	35,3
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	261
ASAT (SGOT)	UV kinetic at 37°C	IU/l	For information	59
Bilirubin	DPD / caffeine colorimetry	mg/100ml	For information	0,24
Calcium	Arsénazo colorimetry	mg/100ml	For information	13,7
Gamma GT	Colorimetry kinetic at 37°C	IU/l	For information	7
Cholesterol	Cholesterase Trinder colorimetry	mg/100ml	For information	32,0
Creatinine	Colorimetry Kinetic (Jaffé)	mg/100ml	For information	2,8
Chloride	Indirect potentiometry	mmol/l	For information	98
Glucose	Hexokinase UV	mg/100ml	For information	133,0
Iron	TPTZ colorimetry	µg/100ml	For information	203
Lactate Dehydrogenase	UV kinetic at 37°C	IU/l	For information	544
Phosphorus	Phosphomolybdate colorimetry	mg/100ml	For information	10,9
Potassium	Indirect potentiometry	mmol/l	For information	14,1
Sodium	Indirect potentiometry	mmol/l	For information	134
Triglycerides	Glycerokinase Trinder colorimetry	mg/100ml	For information	85,0
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	13,0 - 32,0	15,2
Alpha Globulins	Immunoturbidimetry	g/l	For information	13,3
Beta Globulins	Immunoturbidimetry	g/l	For information	6,3
Gamma Globulins	Immunoturbidimetry	g/l	For information	0,4

<b>ELISA TEST</b>				
Tests	Methods	Units	Specifications	Results
IgG	ELISA test	mg/l	For information	75,0

<b>BIOLOGICAL PERFORMANCE</b>				
Tests	Methods	Units	Specifications	Results
L929 cell growth : 3rd day	Internal validated method	%	For information	115
L929 cell growth : 6th day	Internal validated method	%	For information	110
SP2/O-Ag14 cell growth : 3rd day	Internal validated method	%	For information	91
SP2/O-Ag14 cell growth : 6th day	Internal validated method	%	For information	91
HELA cell growth : 3rd day	Internal validated method	%	For information	100
HELA cell growth : 6th day	Internal validated method	%	For information	115
MRC-5 cell growth : 3rd day	Internal validated method	%	For information	96
MRC-5 cell growth : 6th day	Internal validated method	%	For information	81
Plating efficiency -cells implanted	Internal validated method	-	500	500
Plating efficiency - number of colonies	Internal validated method	-	For information	348
Plating efficiency - PE absolute	Internal validated method	%	For information	70
Plating efficiency - PE relative	Internal validated method	%	For information	93
Cloning efficiency -cells implanted/well	Internal validated method	-	1	1
Cloning efficiency - number of clones	Internal validated method	-	For information	61
Cloning efficiency - CE absolute	Internal validated method	%	For information	63
Cloning efficiency - CE relative	Internal validated method	%	For information	81

Collected animals are tested and found negative against Bovine Spongiform Encephalopathy (BSE) accordingly to the regulation EC 999/2001 updated.  
 All fetal bovine sera are collected from registered slaughterhouses under the supervision of government veterinary authorities.

LCAILLEAU  
 Quality Department  
 Date 17-NOV-2022

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