

Certificate of Analysis

Description	Fetal Bovine Serum, New Zealand Origin	Catalog #:	35-081-CV
		Lot #:	35081001
		Expiration Date:	2023/07
Storage	-25 to -15°C	Country of Raw Material Origin:	New Zealand
		Country of Manufacture:	New Zealand

Notes:

This product was tested in accordance with currently approved Mediatech, Inc. specifications and procedures. Testing procedures are maintained in compliance with the current versions of the USP and/or EP, where applicable.

For research and further manufacturing use only. Not for use as an excipient. Not for therapeutic or diagnostic use. Not for human or animal consumption. Utilization of this product apart from the labeled intended use may be a violation of local and/or Federal Law.

The above mentioned product is of New Zealand animal origin and was sourced from the following New Zealand Government registered Meat Establishments. ME124 Greenlea Premier Meats Hamilton, New Zealand. ME103 Auckland Meat Processor, New Zealand. ME82 Greenlea Premier Meats Morrinsville, New Zealand.

TEST PARAMETERS	SPECIFICATION	RESULT
Appearance/Visual Examination	Yellow-amber colored frozen liquid Or Satisfactory Or Pass	Satisfactory
Date of Manufacture	As Reported	July 2017
Date of Expiration	As Reported	July 2023
Triple 0.1 Micron-Filtered	As Reported	TRIPLE 0.1 MICRON
Sterility (EP/USP OR Broth Culture)	Pass OR Sterile OR No Growth	Sterile
Endotoxin (USP OR Kinetic Turbidimetric)	≤ 5.00	<1.0 IU/mL
Mycoplasma (EP OR Broth Culture 35 day incubation)	Not Detected	Not Detected
pH	7.0 – 8.0	7.2
Osmolality (Osmometer)	280 – 350	312 mOsm/kg
Performance/Functional Testing (Cell Culture)	Passed > 75% to control MDBK Hybridoma	105% 99%



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	MRC-5	100%
	Vero	104%
Virus Screening (9 CFR Part 113.53 c)		
Bluetongue Virus	Not Detected	Not Detected
Bovine Adenovirus	Not Detected	Not Detected
Bovine Parvovirus	Not Detected	Not Detected
Bovine Respiratory Syncytial Virus	Not Detected	Not Detected
Bovine Viral Diarrhea Virus	As Reported	Not Detected
Rabies Virus	Not Detected	Not Detected
Reovirus	Not Detected	Not Detected
Cytopathogenic Agents (e.g. IBR)	Not Detected	Not Detected
Hemadsorbing Agents (e.g. PI3)	Not Detected	Not Detected
Proteins/Others		
Alkaline Phosphatase	As Reported	155 U/L
Cholesterol	As Reported	0.8 mmol/L
Creatinine	As Reported	266 µmol/L
Glucose	As Reported	7 mmol/L
Glutamic Oxaloacetic Transaminase	As Reported	673 U/L
Glutamic Pyruvic Transaminase	As Reported	51 U/L
Hemoglobin (UV/VIS Spectrophotometer)	< 25	0.1 mg/dL
Immunoglobulin G (IgG) (ELISA)	As Reported	57.7 mg/L
Total Bilirubin	As Reported	5 µmol/L
Total Protein	3-5	4 g/dL
Triglycerides	As Reported	0.5 mmol/L
Albumin	As Reported	54.9 %
Alpha – 1	As Reported	34.6 %
Beta	As Reported	9.9 %
Gamma	As Reported	0.6 %
Electrophoretic Profile/Pattern	Typical/Normal Representative of Fetal Bovine Serum	Typical
Trace Metals		

Calcium	As Reported	3.3 mmol/L
Chloride	As Reported	97 mmol/L
Phosphate	As Reported	3.18 mmol/L
Potassium	As Reported	10.9 mmol/L
Sodium	As Reported	136 mmol/L

For additional information on this Mediatech product, please contact our Technical Services department at (800) 235-5476 or via email at MTTechServ@corning.com.

Following signatures indicate the above material has met all quality specifications and has been reviewed by a Quality representative.

Written By/Date: VR 23 MAR 2018

Reviewed By/Date:  / JR 23 MAR 2018



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