

Australian Bio-Tech Laboratories Pty Ltd
Trading as CellSera Australia
13 Paddock Place, Rutherford
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Australia
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Brett@cellsera.com.au

Certificate of Analysis Foetal Bovine Serum

Triple 0.1µm Sterile Filtered

Certified Australian Origin

Certified Suitable by EDQM Certificate Number: R0-CEP 2014-336-Rev 01

Batch No.:	
Origin:	Australia
Species:	Bos taurus
Catalogue Number:	10111111
Date of Manufacture:	
Expiry Date:	

1. General:

	Test	Method	Specification	Result
1.1			Clear, straw-coloured fluid,	Clear, straw-coloured
	Appearance	Visual inspection	free of any particulate	fluid, free of any
			matter	particulate matter
1.2	рH	pH meter	6.9 – 7.8 pH	7.6 pH
1.3	1.3 Osmolality	Freezing point	280 – 365 mOsm/kg	310 mOsm/kg
	Osmolancy	depression	200 303 11103117 kg	310 mosm/ kg
1.4	Haemoglobin	Spectrophotometry	≤ 25 mg/dL	17.5 mg/dL
1.5	Total Protein	Biuret method	30 – 45 g/L	36 g/L
1.6	Total IgG	ELISA	≤ 300 μg/mL	120 μg/mL
1.7	Endotoxin	LAL	≤ 10 EU/mL	<1 EU/mL
1.8	Sterility	Cell culture	No microbial presence	No microbial presence
1.9	Bacteria	Cell culture	Not detected	Not detected
1.10	Fungi	Cell culture	Not detected	Not detected
1.11	Mycoplasma	Cell culture	Not detected	Not detected



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2. Virus Testing:

2.1	Bovine Viral Diarrhoea Virus	Virus isolation	Not detected	Not detected
2.2	Bovine Herpesvirus 1	Virus isolation	Not detected	Not detected
2.3	Parainfluenza 3	Virus isolation	Not detected	Not detected

3. Biochemistry:

	Test	Method	Specification	Result
3.1	Alkaline Phosphatase (ALP)	Spectrophotometry	As reported	227 U/L
3.2	Anion gap	Calculated	As reported	27.7 mmol/L
3.3	Aspartate Aminotransferase (AST)	Spectrophotometry	As reported	34 U/L
3.4	Albumin	Electrophoresis	As reported	25.6 g/L
3.5	Beta Hydroxybutyrate (BHB)	Spectrophotometry	As reported	0.05 mmol/L
3.6	Bicarbonate	Monometric	As reported	22.3 mmol/L
3.7	Bilirubin (total)	Spectrophotometry	As reported	4.5 μmol/L
3.8	Calcium	Spectrophotometry	As reported	3.49 mmol/L
3.9	Chloride	Spectrophotometry	As reported	105 mmol/L
3.10	Cholesterol	Spectrophotometry	As reported	1 mmol/L
3.11	Creatinine	Spectrophotometry	As reported	253 μmol/L
3.12	Creatinine Phosphokinase (CK)	Spectrophotometry	As reported	98 U/L
3.13	Gamma Glutamyltransferase (GGT)	Spectrophotometry	As reported	9 U/L
3.14	Globulin	Electrophoresis	As reported	10.6 g/L
3.15	Glutamate Dehydrogenase (GLDH)	Spectrophotometry	As reported	3 U/L
3.16	Lactate Dehydrogenase (LDH)	Spectrophotometry	As reported	525 U/L
3.17	Magnesium	Spectrophotometry	As reported	1.43 mmol/L
3.18	Phosphate	Spectrophotometry	As reported	3.3 mmol/L
3.19	Potassium	Flame Emission	As reported	12.6 mmol/L
3.20	Sodium	Flame Emission	As reported	142 mmol/L
3.21	Urea	Spectrophotometry	As reported	6.7 mmol/L



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4. Serum Electrophoresis

	Test	Method	Specification	Result
4.1	Albumin	Agarose Gel Plate	As reported	18 g/L
4.2	Alpha 1 Globulins	Agarose Gel Plate	As reported	5 g/L
4.3	Alpha 2 Globulins	Agarose Gel Plate	As reported	8 g/L
4.4	Beta Globulins	Agarose Gel Plate	As reported	4 g/L
4.5	Gamma Globulins	Agarose Gel Plate	As reported	1 g/L
4.6	Electrophoresis Pattern	Agarose Gel Plate	Typical	Typical

Measles, mumps, and rubella do not infect bos taurus, and rabies virus is not present in Australia.

The products described above were derived from animals of Australian origin and the products were treated solely within Australia. Foot-and-mouth disease and rinderpest do not exist in Australia.

The serum is intended for research or pharmaceutical/technical purposes only. The country of import/origin is free from TSE group of diseases and the product is free from pathogens especially Boyine Viral Diarrhoea (BVD).

Signed		
	QC	