

Certificate of Analysis

Date Prepared: 07, February, 2019
 Date of Manufacture: 27, May, 2016
 Date of Expiry: 26, May, 2021
 Product Description: Bovine Serum Albumin Lyophilized Powder
 Standard Grade pH 7.0
 Lot #: **NZ61480101**
 SKU #: **PH100**

Analysis:

<u>Analyte</u>	<u>Specification</u>	<u>Result</u>	<u>Method</u>
Purity	≥ 98.0%	100.0%	Agarose Gel
Protein (Dry Basis)	≥ 98.0%	99.3%	By calculation
Moisture	≤ 5.0%	0.9%	AOAC 930.15
Ash	< 2%	1.2%	AOAC 923.03
BlgG	None Detected	Complies	Turbidimetric Analysis
Solubility	Clear to slightly hazy. Yellow to yellow-green	Pass	4% Solution in H ₂ O (visual clarity)
Protease	None Detected	None Detected	Enzymatic Assay (Detection limit 0.005 units/mg)
pH (10% Solution)/Temp	6.5-7.5/Ambient	7.0	10% Solution in H ₂ O
pH (1% Solution)/Temp	6.5-7.5/Ambient	6.9	1% Solution in NaCl
Heavy Metals (Pb)	≤ 10 ppm	< 0.2 ppm	AOAC 984.27 (Modified)
Endotoxin	≤ 3 EU/mg	< 0.01 EU/mg	LAL
APC	≤ 1,000 cfu/g	< 10 cfu/g	AOAC 990.12
Total Coliforms MPN	≤ 100 MPN/g	< 3 MPN/g	USFDA-BAM
Salmonella	Absent/25g	Absent	PCR-Salmonella by GeneScan
E. coli by MPN	≤ 10 MPN/g	< 3 MPN/g	USFDA-BAM
Asepsis	None Detected	None Detected	Culture
BVD Virus	None Detected	None Detected	Virus Isolation
Mycoplasma	None Detected	None Detected	Culture
Pathogen Inducing Cytopathy	None Detected	None Detected	Virus Isolation
Pathogen Inducing Haemadsorption	None Detected	None Detected	Virus Isolation


K Muggeridge
 Quality Department

07-Feb-2019
 Date