

## Certificate of Analysis

Date Prepared: 28, February, 2019  
 Date of Manufacture: 20, September, 2017  
 Date of Expiry: 19, September, 2022  
 Product Description: Bovine Serum Albumin Lyophilized Powder  
 Reagent Grade Fatty Acid Free  
 For Research or Further Manufacturing Use Only

Lot #: **NZ72630101**  
 SKU #: **PH700**

**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%	100.7%	By calculation
Moisture	≤ 5.0%	1.5%	AOAC 930.15
Ash	< 2%	0.9%	AOAC 923.03
BlgG	None Detected	Complies	Turbidimetric Analysis
NEFA	<0.01%	Complies	Enzymatic Assay
Solubility	Clear to slightly hazy. Yellow to yellow-green	Pass	4% Solution in H <sub>2</sub> 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	7.1	10% Solution in H <sub>2</sub> O
pH (1% Solution)/Temp	6.5-7.5/Ambient	6.8	1% Solution in NaCl
Heavy Metals (Pb)	≤ 10 ppm	< 1 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

28-Feb-2019  
 Date