

CERTIFICATE OF ANALYSIS

No.0098

Product Name	β-Alanine	Manufacture Date	May.06,2018
Batch No.	AL201805004	Analysis Date	May.08,2018
Lot Size	2500kg	Expiry Date	May.05,2021
Executive Standard	AJ197	Order No.	—

Analysis Item	Unit	Specification	Test Method	Result
Appearance	—	White crystalline powder	Eyeballing	White crystalline powder
Identification*	—	Conform to standard spectrum	IR	Conform
Assay	%	98.0-101.0	Titration	100.0
pH	—	6.5-7.5	pH meter	7.0
Transmittance	%	≥95.0	UV	98.5
Loss on Drying	%	≤0.2	Drying	0.02
Residue on ignition	%	≤0.2	Combustion	0.06
Chloride	%	≤0.039	Colorimetry	<0.039
Ammonium	%	≤0.02	Colorimetry	<0.02
Sulphates	%	≤0.048	Colorimetry	<0.048
Iron	ppm	≤30	Colorimetry	<30
Other amino acids*	%	Chromatographically not detectable	TLC	Conform
Melting point*	℃	197-202	Smelting Point Apparatus	197.0-197.5
Heavy Metals*,	ppm	≤10	Colorimetry	<10
Mercury*	ppm	≤0.1	AFS	<0.005
Lead*,	ppm	≤2.0	AAS	<0.05
Arsenic*	ppm	≤1.0	AFS	<0.1
Cadmium*	ppm	≤1.0	AAS	<0.01
Bulk Density*	g/cm ³	/	Physical Method	0.83
Thru 20 Mesh*	%	≥99.0	Sieving	99.9
Total Plate Count*	cfu/g	≤10 ³	Plating	<10
Yeast & Molds*	cfu/g	≤10 ²	Plating	<10
E. Coli*	MPN/g	<3	Plating	<0.3
Salmonella*	/25g	Negative	Plating	Negative

Conclusion: Complies with the requirements of AJ197.

Note: The items labelled with * are tested at regular intervals.

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