

CERTIFICATE OF ANALYSIS

Product Name:	L-Theanine	Quantity:	500kg
Batch Number:	20211210	Analysis Date:	10 th Dec. 2021
Production Date:	10 th Dec. 2021	Re-Test Date:	9 th Dec. 2023
CAS:	3081-61-6	Molecular Formula	C7H14N2O3
Reference Standard:	JP2000 Standard		
Item	Specification	Results	Test Method
Appearance	White crystalline Powder	Conforms	Visual
Assay	98.0 – 102.0%	99.13%	HPLC
Loss on Drying	≤ 0.5%	0.29%	Ch.P2020
Residue on Ignition	≤ 0.2%	0.06%	Ch.P2020
Tapped Density		0.45g/cm ³	
Bulk Density		0.30g/cm ³	
Particle Size	NLT 100% Through 80 mesh	100% Through 80 mesh	80 Mesh Screen
Solubility (1.0g/20ml H ₂ O)	+7.7 to +8.5 Degree	+8.0 Degree	Ch.P2020
Chloride (Cl)	≤ 0.02%	0.02%	Ch.P2020
pH	5.0 – 6.0	5.11	Ch.P2020
Melting Point	202 - 215°C	202.5 - 203°C	Ch.P2020
Heavy Metals	≤ 10ppm	< 10ppm	Ch.P2020
Arsenic	≤ 4ppm	< 4ppm	Ch.P2020
Total Plate Count	< 1,000cfu/g	Conforms	Ch.P2020
Yeast and Moulds	< 100cfu/g	Conforms	Ch.P2020
E.Coli	Absent	Absent	Ch.P2020
Salmonella	Absent	Absent	Ch.P2020
Packaging & Storage	Packed in cardboard drums and 2 plastic bags inside. NW.: 25kg Store in a well-closed container away from moisture.		
Shelf Life	2 years if sealed and stored away from direct sun light and heat.		
Conclusion:	The product conforms to JP2000 Standard.		