



Certificate of Analysis

Product Name:	L-Theanine	Batch Number:	Varies
CAS No.	3081-61-6	Manufacture Date:	Varies
Molecular Formula:	C₇H₁₄N₂O₃	Expiry Date:	Varies

IDENTIFICATION		SPECIFICATION	RESULT
Assay		98.0 - 102.0%	98.98 - 99.3%
Physical	Appearance	White / Quasi-white crystals or crystalline powder	Complies
	Melting point	202 - 215°C	202.5 - 203.0°C
	Specific rotation	+7.5 to +8.5°	+8.0 to +8.06°
	Moisture	≤ 2.0%	0.27 - 0.51%
	Residue on ignition	≤ 0.2%	0.05 - 0.20%
	pH	5.0 - 6.0	5.2 - 5.63
	Loss on drying	≤ 1%	0.19 - 0.29%
Chemical	Heavy Metals (as Pb)	≤ 10 ppm	Complies
	Cadmium (Cd)	≤ 1 ppm	Complies
	Arsenic (As)	≤ 1 ppm	Complies
	Chlorides (Cl)	≤ 0.02%	Complies
	Sulfate	≤ 0.02%	Complies
Microbial	Total Plate Count	≤ 1000 cfu/g	Complies
	Yeast & Mold	≤ 100 cfu/g	Complies
	E. Coli, Salmonella	Negative	Complies

Else	Storage condition	Sealed, kept in shady and dry place
	Shelf life	Three years

