

L-Theanine JP2000

Batch no

C007-M20230901

Mf date

Sep 03 2023 Sep 02 2026

Expiry Batch size

1000 kg

Molecular Structure

Molecular Formula $C_7H_{14}N_2O_3$ Molecular Weight 174.20 CAS Registry Number 3081-61-6

Feb 26 2024

<u>Tests</u>	Specifications		Results
Appearance	White crystals or	crystalline powder	White crystalline powder
Solubility (1.0g/20mL)	Clear & colorless		Conforms
Identification	HPLC		Positive
Specific rotation[α] ²⁰ D	+7.7 ~ +8.5°		+8. 0°
Transmittance	≥ 90.0%		Conforms
Melting point	190 ~ 215°C		193 ~ 195°C
Sulfate	≤ 0.015%		Conforms
Chloride	≤ 0.02%		Conforms
Loss on drying	≤ 0.5%		0. 12%
Residue on ignition	≤ 0. 2%		0. 04%
pH $(1\%, H_20)$	4.5 ~ 6.0		5. 0
Heavy metals	≤ 10 ppm		Conforms
Lead	≤ 1 ppm		Conforms
Cadmium	≤ 0.5 ppm		Conforms
Mercury	≤ 0.1 ppm		Conforms
	. ≤ 1 ppm		≤ 1 ppm
Microbiological tests	Total plate count		Negative
	Yeasts & molds		Negative
	Salmonella	≤ 100 cfu/g	≤ 100 cfu/g
	E. coli	Negative	Negative
Particle size	95% pass 80 mesh		Conforms
Assay (HPLC)	98.0 ~ 102.0%		99. 7%
Packaging & storage	Preserve in a wel	I-closed container, pro	tected from light
Conclusion	Material complies with JP2000		

