NATURE SCIENCE TECHNOLOGIES

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CERTIFICATE OF ANALYSIS

L-Theanine Green Tea Extract

LOT EX0362

Catalog No.: N/A

CAS No.: 3081-61-6

Molecular formula: $C_7H_{14}N_2O_3$

MW: 174.20

Source: *Camellia sinensis L.*

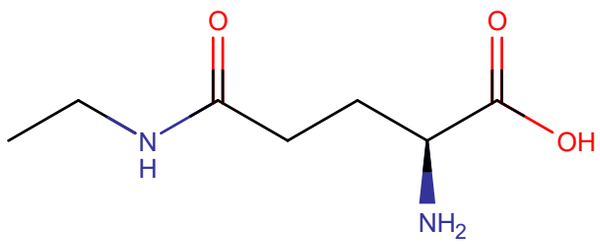
Part used: leaves

Solvents used: purified water, ethyl acetate, ethanol

Manufacturing date: 09.06.2026

Analysis date: 15.06.2026

Shelf life: 24 months



No.	Parameter	Specification	Results	Method
1.	Appearance	Crystalline powder	Conforms	Visual
2.	Color	White to off-white	Conforms	Visual
3.	Identification	Conforms to R.S. sample	Conforms	HPTLC
4.	Odor	Characteristic	Conforms	Organoleptic
5.	Taste	Characteristic	Conforms	Organoleptic
6.	Mesh size/sieve	≥95 % pass 80 mesh	Conforms	80 mesh
7.	Loss on drying	≤5.0 %	1.32 %	Ph. Eur. 2.8.17
8.	Residue on ignition	≤1.0 %	0.05 %	Ph. Eur. 2.4.16
9.	Assay (L-Theanine)	≥98.0 %	98.57 %	HPLC
10.	Assay (Caffeine)	≤0.5 %	0.02 %	HPLC

11.	Solvent residues	Ph. Eur. 2.4.24	Conforms	Ph. Eur. 2.4.24
12.	Pesticide residues	EC 396/2005	Conforms	Third lab
13.	Ethylene oxide	EC 396/2005	Conforms	HACCP
14.	Benzo[a]pyrene	(EU) 2023/915	Conforms	HPLC
15.	PAHs	(EU) 2023/915	Conforms	HPLC
16.	Heavy Metals	≤10 ppm	Conforms	ICP-MS
17.	Lead	≤2 ppm	Conforms	ICP-MS
18.	Arsenic	≤1 ppm	Conforms	ICP-MS
19.	Mercury	≤0.1 ppm	Conforms	ICP-MS
20.	Cadmium	≤1 ppm	Conforms	ICP-MS
21.	TPC	$<10^3$ CFU/g	Conforms	AOAC,BAM
22.	TYMC	$<10^2$ CFU/g	Conforms	AOAC,BAM
23.	*Escherichia Coli*	Absent	Conforms	AOAC,BAM
24.	*Salmonella*	Absent	Conforms	AOAC,BAM
25.	*Staphylococcus aureus*	Absent	Conforms	AOAC,BAM

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored

Issued by
Nature Science Technologies Ltd.

Signature:



Date: 15.06.2026

This Certificate of Analysis is based on the manufacturer's quality control documentation for the referenced batch.