NutraNorth

CERTIFICATE OF ANALYSIS

Manufactured for	**MACKISEN**				
Name of product:	**L-Theanine**			**NPN**	**80131053**
Packaging Lot # :	**M2500553/1**	**Master Packaging Record #**		**Expiry Date :**	**09/2028**
		MPR	**MA-N053-60-V0**		
Manufacturing Lot # :	**M2500553**	**Master Manufacturing Record #:**		**MFG Date:**	**10/2025**
		MMR	**MA-N053-V0**		
Storage Conditions:	Store at room temperature (R.T), in closed dry containers and Keep away from high temperature & moisture.				
Physical Description:	Light brown color powder in clear Veggie "00" capsules.		60 count in Bottle250 cc-45/400 White HDPE Round with Cap-45-400 white HIS P/P, ribbed,plain liner.		

Physical Tests:

TESTES	Results	Specifications Low	Target	High	Strength	Method
Average Wt. of Capsules	650 mg	594	660	726	mg	USP <2091>
Wt. variation of Capsules	confirms	Conforms as per USP weight variation +/- 10 %				USP <2091>
Odour & Taste	confirms	Characteristic, Conforms to Standard				Visual, Olfactory
Disintegration	14 min	NMT 30			min	USP <2040>
IDENTITY	confirms	Conforms to standard				FTIR

Quantity / Potency :	**Results**		**Low**	**Target**	**High**	**Strength**	**Method**
By Qualitative Analysis							
L- Theanine (Camellia sinensis- Leaf)	203.73	mg	160.00	200.00	240.00	mg	JPL-165 (HPLC)

NON-MEDICINAL INGREDIENTS	Rice Powder, Empty Clear Vegetable Capsule Size "00"

Purity:

MICRO:	**Results**	**Limits**	**Method**
Total Plate Count	150 c.f.u / g	< 3,000 c.f.u / g	USP<2021>/AOAC
Total Yeast	< 10 c.f.u / g	< 300 c.f.u / g	USP<2021>/AOAC
Total Mold	< 10 c.f.u / g	< 300 c.f.u / g	USP<2021>/AOAC
E.Coli	Not Detected	Not Detected	USP<2022>/AOAC
Salmonella Spp	Not Detected	Not Detected	USP<2022>/AOAC
Staphylococcus Aureus	Not Detected	Not Detected	USP<2022>/AOAC
HEAVY METALS:	**Results**	**Limits - 1 capsules / day**	**Method**
Arsenic	< 0.0001 mcg / kg b.w./day	< 0.14 mcg / kg b.w./day	ICP-MS
Cadmium	< 0.0001 mcg / kg b.w./day	< 0.09 mcg / kg b.w./day	ICP-MS
Lead	0.0004 mcg / kg b.w./day	< 0.14 mcg / kg b.w./day	ICP-MS
Total Mercury	<0.0001 mcg / kg b.w./day	< 0.29 mcg / kg b.w./day	ICP-MS
SOLVENT RESIDUES :	Complies	Meets USP requirements	USP/GC

Prepared by: M Pandeep Jan/20/2026

Approved by: B Bhargava Jan/20/2026

Quality Assurance

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NutraNorth

CERTIFICATE OF ANALYSIS

Manufactured for	**MACKISEN**				
Name of product:	**L-Theanine**			**NPN**	**80131053**
Packaging Lot # :	**M2500553/2**	**Master Packaging Record #**		**Expiry Date :**	**09/2028**
		MPR	**MA-N053-120-V0**		
Manufacturing Lot # :	**M2500553**	**Master Manufacturing Record #:**		**MFG Date:**	**10/2025**
		MMR	**MA-N053-V0**		
Storage Conditions:	Store at room temperature (R.T), in closed dry containers and Keep away from high temperature & moisture.				
Physical Description:	Light brown color powder in clear Veggie "00" capsules.	120 count in Bottle-250 cc-45/400 White HDPE Round with Cap-45-400 white HIS P/P,ribbed,plain liner.			

Physical Tests:

			Specifications				
TESTES	**Results**		**Low**	**Target**	**High**	**Strength**	**Method**
Average Wt. of Capsules	650 mg		612	680	748	mg	USP <2091>
Wt. variation of Capsules	confirms		Conforms as per USP weight variation +/- 10 %				USP <2091>
Odour & Taste	confirms		Characteristic, Conforms to Standard				Visual, Olfactory
Disintegration	14 min		NMT 30			min	USP <2040>
IDENTITY	confirms		Conforms to standard				FTIR
Quantity / Potency :	**Results**		**Low**	**Target**	**High**	**Strength**	**Method**
By Qualitative Analysis							
L-Theanine (Camellia sinensis) Leaf	203.73	mg	160.00	200.00	240.00	mg	JPL-165 (HPLC)
NON-MEDICINAL INGREDIENTS	Rice Powder, Empty Clear Vegetable Capsule Size "00"						

Purity:

MICRO:	**Results**	**Limits**	**Method**
Total Plate Count	150 c.f.u / g	< 3,000 c.f.u / g	USP <2021/2022>
Total Yeast	<10 c.f.u / g	< 300 c.f.u / g	USP <2021/2022>
Total Mold	<10 c.f.u / g	< 300 c.f.u / g	USP <2021/2022>
E.Coli	Not Detected	Not Detected	USP <2021/2022>
Salmonella Spp	Not Detected	Not Detected	USP <2021/2022>
Staphylococcus Aureus	Not Detected	Not Detected	USP <2021/2022>
HEAVY METALS:	**Results**	**Limits - 1 capsules / day**	**Method**
Arsenic	<0.0001 mcg / kg b.w./day	< 0.14 mcg / kg b.w./day	ICP-MS
Cadmium	<0.0001 mcg / kg b.w./day	< 0.09 mcg / kg b.w./day	ICP-MS
Lead	0.0004 mcg / kg b.w./day	< 0.14 mcg / kg b.w./day	ICP-MS
Total Mercury	<0.0001 mcg / kg b.w./day	< 0.29 mcg / kg b.w./day	ICP-MS
SOLVENT RESIDUES :	Complies	Meets USP requirements	USP/GC

Prepared by: M. Pradeep Jan/20/2026

Approved by: Bhargav.R Jan/20/2026

Quality Assurance

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