NutraNorth

CERTIFICATE OF ANALYSIS

Manufactured for	**MACKISEN**				
Name of product:	**Glycine**			**NPN**	**80132435**
Packaging Lot # :	**M2500562/1**	**Master Packaging Record #**		**Expiry Date :**	**08/2028**
		MPR	**MA-N435-90-V0**		
Manufacturing Lot # :	**M2500562**	**Master Manufacturing Record #:**		**MFG Date:**	**09/2025**
		MMR	**MA-N435-V0**		
Storage Conditions:	Store at room temperature (R.T), in closed dry containers and Keep away from high temperature & moisture.				
Physical Description:	White powder in clear Veggie "0" capsules.		90 count in Bottle-250 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	689 mg	635	705	776	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	10 min	NMT 30			min	USP <2040>
IDENTITY	Confirms	Conforms to standard				FTIR

Quantity / Potency :	**Results**		**Low**	**Target**	**High**	**Strength**	**Method**
By Qualitative Analysis							
L-Glycine	651.14	mg	480.00	600.00	720.00	mg	JPL-427.00

NON-MEDICINAL INGREDIENTS	Empty Clear Vegetable Capsule Size "00"

Purity:

MICRO:	Results	Limits	Method
Total Plate Count	<10 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 - 3 capsules / day**	**Method**
Arsenic	< 0.005 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	0.0011 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

Prepared by: M.Pradeep Feb/10/2026

Approved by: Bhargav.K Feb/10/2026

Quality Assurance

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NutraNorth

CERTIFICATE OF ANALYSIS

Manufactured for	**MACKISEN**				
Name of product:	**Glycine**			**NPN**	**80132435**
Packaging Lot # :	**M2500562/2**	**Master Packaging Record #**		**Expiry Date :**	**08/2028**
		MPR	**MA-N435-180-V0**		
Manufacturing Lot # :	**M2500562**	**Master Manufacturing Record #:**		**MFG Date:**	**09/2025**
		MMR	**MA-N435-V0**		
Storage Conditions:	Store at room temperature (R.T), in closed dry containers and Keep away from high temperature & moisture.				
Physical Description:	White powder in clear Veggie "0" capsules.		180 count in Bottle-400 cc-45/400 White HDPE Round with Cap-53-400 white HIS P/P,ribbed,plain liner.		

Physical Tests:

TESTES	Results	Specifications Low	Target	High	Strength	Method
Average Wt. of Capsules	689 mg	635	705	776	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	10 min	NMT 30			min	USP <2040>
IDENTITY	Confirms	Conforms to standard				FTIR

Quantity / Potency :	**Results**		**Low**	**Target**	**High**	**Strength**	**Method**
By Qualitative Analysis							
L-Glycine	651.14	mg	480.00	600.00	720.00	mg	JPL-427.00
NON-MEDICINAL INGREDIENTS	Empty Clear Vegetable Capsule Size "00"						

Purity:

MICRO:	Results	Limits	Method
Total Plate Count	< 10 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 - 3 capsules / day**	**Method**
Arsenic	< 0.005 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	0.0011 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

Prepared by: M.Pradeep Feb/10/2026

Approved by: Bhargav.N Feb/10/2026

Quality Assurance

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