CERTIFICATE OF ANALYSIS

Manufactured for	**MACKISEN**				
Name of product:	**Magnesium Bisglycinate**			**NPN**	**80130778**
Packaging Lot # :	**M2500224/1**	**Master Packaging Record #**		**Expiry Date :**	**06/2028**
		MPR	**MA-N778-30-V0**		
Manufacturing Lot # :	**M2500224**	**Master Manufacturing Record #:**		**MFG Date:**	**07/2025**
		MMR	**MA-N778-V0**		
Storage Conditions:	Store at room temperature (R.T), cool dry area keep away from direct sunlight and heat.				
Physical Description:	White powder in Empty Clear Veg Capsule Size "00"	30 count in Bottle-150 cc-38/400 white HDPE Round with Cap-38-400 White HIS P/P, top dot, plain liner.			

Physical Tests:

			Specifications				
TESTES	**Results**		**Low**	**Target**	**High**	**Strength**	**Method**
Average Wt. of Capsules	1025 mg		927	1030	1133	mg	USP <2091>
Wt. variation of Capsules	conforms		Conforms as per USP weight variation +/- 10 %				USP <2091>
Disintegration	13 min		NMT 30			min	USP <2040>
IDENTITY	conforms		Conforms to standard				FTIR
Quantity / Potency :	**Results**		**Low**	**Target**	**High**	**Strength**	**Method**
Magnesium (as Magnesium Bisglycinate)	208.90	mg	180.00	200.000	250.00	mg	JPL-375.00 (ICP)
Non-Medicinal Ingredients :	Rice Flour, Empty Clear Vegetable Capsule Size "00"						

PURITY:

MICRO:	**Results**	**Limits**	**Method**
Total Plate Count	Conforms	<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 - 2 Capsules / day**	**Method**
Arsenic	0.0041 mcg / kg b.w./day	< 0.14 mcg / kg b.w./day	ICP-MS
Cadmium	0.0008 mcg / kg b.w./day	< 0.09 mcg / kg b.w./day	ICP-MS
Lead	0.0102 mcg / kg b.w./day	< 0.14 mcg / kg b.w./day	ICP-MS
Total Mercury	0.0002 mcg / kg b.w./day	< 0.29 mcg / kg b.w./day	ICP-MS

Prepared by: Neeling July 26/2025

Approved by: Bhargavi July 28/2025
Quality Assurance

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CERTIFICATE OF ANALYSIS

Manufactured for	**MACKISEN**				
Name of product:	**Magnesium Bisglycinate**			**NPN**	**80130778**
Packaging Lot # :	**M2500224/2**	**Master Packaging Record #**		**Expiry Date :**	**06/2028**
		MPR	**MA-N778-90-V0**		
Manufacturing Lot # :	**M2500224**	**Master Manufacturing Record #:**		**MFG Date:**	**07/2025**
		MMR	**MA-N778-V0**		
Storage Conditions:	Store at room temperature (R.T), cool dry area keep away from direct sunlight and heat.				
Physical Description:	White powder in Empty Clear Veg Capsule Size "00"	90 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	1025 mg	927	1030	1133	mg	USP <2091>
Wt. variation of Capsules	conforms	Conforms as per USP weight variation +/- 10 %				USP <2091>
Disintegration	13 min	NMT 30			min	USP <2040>
IDENTITY	conforms	Conforms to standard				FTIR
Quantity / Potency :	**Results**	**Low**	**Target**	**High**	**Strength**	**Method**
Magnesium (as Magnesium Bisglycinate)	208.90 mg	180.00	200.000	250.00	mg	JPL-375.00 (ICP)
Non-Medicinal Ingredients :	Rice Flour, Empty Clear Vegetable Capsule Size "00"					

PURITY:

MICRO:	**Results**	**Limits**	**Method**
Total Plate Count	Conforms	<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 - 2 Capsules / day**	**Method**
Arsenic	0.0041 mcg / kg b.w./day	< 0.14 mcg / kg b.w./day	ICP-MS
Cadmium	0.0008 mcg / kg b.w./day	< 0.09 mcg / kg b.w./day	ICP-MS
Lead	0.0102 mcg / kg b.w./day	< 0.14 mcg / kg b.w./day	ICP-MS
Total Mercury	0.0002 mcg / kg b.w./day	< 0.29 mcg / kg b.w./day	ICP-MS

Prepared by: Neelima July/29/2025

Approved by: Bhargava Joy 29/2025

Quality Assurance

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