CERTIFICATE OF ANALYSIS

Manufactured for	**Mackisen**				
Name of product:	**Magnesium complex**			**NPN**	**80131966**
Packaging Lot # :	**M2500726/1**	**Master Packaging Record #**		**Expiry Date :**	**10/2028**
		MPR	**MA-N966-90-V0**		
Manufacturing Lot # :	**M2500726**	**Master Manufacturing Record #:**		**MFG Date:**	**11/2025**
		MMR	**MA-N966-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 Empty Clear vegetable capsules Size "00EL"	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	1012 mg	1006	1118	1230	mg	USP <2091>
Wt. variation of Capsules	Conforms	Conforms as per USP weight variation +/- 10 %				USP <2091>
Disintegration	18 mins	NMT 30			min	USP <2040>
IDENTITY	Conforms	Conforms to standard				FTIR

	Results		Low	Target	High	Strength	Method
Magnesium(as Magnesium L-Threonate , Magnesium Malate , Magnesium Taurate , Magnesium Bis glycinate)	112.77	mg	99.00	110.00	137.50	mg	JPL-375.00 (ICP-OES)
NON-MEDICINAL INGREDIENTS	Microcystalline Cellulose 101, Empty Clear vegetable capsule size "00"						

PURITY:

MICRO:	Results	Limits	Method
Total Plate Count	100 CFU/g	< 3000 c.f.u / g	USP <2021/2022>
Total Yeast	<10 CFU/g	< 300 c.f.u / g	USP <2021/2022>
Total Mold	<10 CFU/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 capsule / day**	**Method**
Arsenic	<0.0002 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	0.0021 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: Sainihal Jan/01/2026

Approved by: Bhargav.R Jan/01/2026

Quality Assurance

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CERTIFICATE OF ANALYSIS

Manufactured for	**Mackisen**				
Name of product:	**Magnesium complex**			**NPN**	**80131966**
Packaging Lot # :	**M2500726/2**	**Master Packaging Record #**		**Expiry Date :**	**10/2028**
		MPR	**MA-N966-180-V0**		
Manufacturing Lot # :	**M2500726**	**Master Manufacturing Record #:**		**MFG Date:**	**11/2025**
		MMR	**MA-N966-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 Empty Clear vegetable capsules Size "00EL"	180 count in Bottle-500 cc-53/400 white HDPE Round With Cap-53-400 White HIS P/P, Ribbed smooth.			

Physical Tests:

TESTES	Results	Specifications Low	Target	High	Strength	Method
Average Wt. of Capsules	1012 mg	1006	1118	1230	mg	USP <2091>
Wt. variation of Capsules	Conforms	Conforms as per USP weight variation +/- 10 %				USP <2091>
Disintegration	18 mins	NMT 30			min	USP <2040>
IDENTITY	Conforms	Conforms to standard				FTIR

	Results		Low	Target	High	Strength	Method
Magnesium(as Magnesium L-Threonate , Magnesium Malate , Magnesium Taurate , Magnesium Bis glycinate)	112.77	mg	99.00	110.00	137.50	mg	JPL-375.00 (ICP-OES)
NON-MEDICINAL INGREDIENTS	Microcystalline Cellulose 101, Empty Clear vegetable capsule size "00"						

PURITY:

MICRO:	Results	Limits	Method
Total Plate Count	100 CFU/g	< 3000 c.f.u / g	USP <2021/2022>
Total Yeast	<10 CFU/g	< 300 c.f.u / g	USP <2021/2022>
Total Mold	<10 CFU/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 capsule / day**	**Method**
Arsenic	<0.0002 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	0.0021 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: Sainihal Jan/01/2026

Approved by: Bhargav.R Jan/01/2026

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