NutraNorth

CERTIFICATE OF ANALYSIS

Manufactured for	**MACKISEN**				
Name of product:	**Black Walnut**			**NPN**	**80138902**
Packaging Lot # :	**M2500645/1**	**Master Packaging Record #**		**Expiry Date :**	**09/2028**
		MPR	**MA-N902-120-V0**		
Manufacturing Lot # :	**M2500645**	**Master Manufacturing Record #:**		**MFG Date:**	**10/2025**
		MMR	**MA-N902-V0**		
Storage Conditions:	Store at room temperature (R.T), in closed dry containers and Keep away from high temperature & moisture.				
Physical Description:	Brown yellow powder in clear Veggie "1" 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	378 mg	343	381	419	mg	USP <2091>
Wt. variation of Capsules	conforms	Conforms as per USP weight variation +/- 10 %				USP <2091>
Odour & Taste	conforms	Characteristic, Conforms to Standard				Visual, Olfactory
Disintegration	05 min	NMT 30			min	USP <2040>
IDENTITY	conforms	Conforms to standard				FTIR

Quantity / Potency :	**Results**		**Low**	**Target**	**High**	**Strength**	**Method**
Black walnut (Juglans nigra) unripe hull	300.00	mg	270.00	300.00	330.00	mg	Certified Input
NON-MEDICINAL INGREDIENTS	Microcrystalline Cellulose 101 , Empty Clear Vegetable Capsule Size "00"						

Purity:

MICRO:	**Results**	**Limits**	**Method**
Total Plate Count	10 c.f.u / g	< 1,00,000 c.f.u / g	USP <2021/2022>
Total Yeast	<10 c.f.u / g	<1000 c.f.u / g	USP <2021/2022>
Total Mold	<10 c.f.u / g	< 1000 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 - 4 capsules / 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	0.0015 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
PESTICIDE RESIDUES :	Complies	Meets USP requirements	USP/GC

Prepared by: Neelima Nov/08/2025

Approved by: Bhargavi.R Nov/08/2025

Quality Assurance

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