NutraNorth

CERTIFICATE OF ANALYSIS

Manufactured for	**MACKISEN**				
Name of product:	**Beta-Alanine**			**NPN**	**80139128**
Packaging Lot # :	**M2500558/1**	**Master Packaging Record #**		**Expiry Date :**	**08/2028**
		MPR	**MA-N128-180-V0**		
Manufacturing Lot # :	**M2500558**	**Master Manufacturing Record #:**		**MFG Date:**	**09/2025**
		MMR	**MA-N128-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 "00" capsules.		180 count in Bottle-400 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	907 mg	857	952	1047	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	14 mins	NMT 30			min	USP <2040>
IDENTITY	conforms	Conforms to standard				FTIR

Quantity / Potency :	**Results**		**Low**	**Target**	**High**	**Strength**	**Method**
By Qualitative Analysis							
ß - Alanine	804.14	mg	640.00	800.00	960.00	mg	JPL-271.00(UV)
NON-MEDICINAL INGREDIENTS	Empty Clear Vegetable Capsule Size "00"						

Purity:

MICRO:	**Results**	**Limits**	**Method**
Total Plate Count	100 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 - 6 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	0.0035 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 residue	complies	Meet USP requirements	GC/USP<467>

Prepared by: Sneha Nov/14/2025

Approved by: I Shargavi Nov/14/2025

Quality Assurance

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NutraNorth
1330 Fewster Dr, Mississauga
ON,L4W 1A4, Canada
Phone: 905-264-3660
Email: info@nutranorth.com

Email: info@nutranorth.com, Website: www.nutranorth.com

