CERTIFICATE OF ANALYSIS

Name of product:	**N-Acetyl-L-Cysteine**				
Packaging Lot # :	**M2500520/1**	**Master Packaging Record #**		**Expiry Date :**	**08/2028**
		MPR	**MA-N001-60-V0**		
Manufacturing Lot # :	**M2500520**	**Master Manufacturing Record #:**		**MFG Date:**	**09/2025**
		MMR	**MA-N001-V0**		
Storage Conditions:	Store at room temperature (R.T), in closed dry containers and Keep away from high temperature & moisture.				
Physical Description:	White to off white powder in clear Veggie "0" capsules.	60 count in Bottle-150 cc-38/400 white HDPE Round with Cap-38-400 White HIS P/P,top dot,plain liner.			

Physical Tests:

TESTES	Results	Specifications Low	Target	High	Strength	Method
Average Wt. of Capsules	723 mg	673	748	823	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	07 mins	NMT 30			min	USP <2040>
IDENTITY	Conforms	Conforms to standard				FTIR
By Qualitative Analysis	**Results**	**Low**	**Target**	**High**	**Strength**	**Method**
N-Acetyl-L-Cysteine	610.43 mg	480.00	600.00	720.00	mg	JPL-012 (HPLC)
NON-MEDICINAL INGREDIENTS	Rice flour, Empty Clear Vegetable Capsule					

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 - 1 capsules / day**	**Method**
Arsenic	<0.0001 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	0.0006 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: Saivishal 10/10/2025

Approved by: Bhargav.R 10/10/2025

Quality Assurance