

## Certificate of Analysis

Date: February 13, 2024

**Product:** N-Acetyl Glucosamine

**Lot/Batch Number:** NACG231019

**Retest Date:** April, 2025

**Manufacture Date:** April, 2022

**Commercial Expiry:** N/A

PROPERTIES	SPECIFICATIONS	RESULTS
Appearance @ 20°C	White Crystalline Powder, Free Flowing	PASS
Specific Rotation	+39.0° – +43.0°	+40.28
pH (20 mg/ml.aq.sol)	6.0 – 8.0	6.25
Assay (HPLC) %	98.0 – 102.0	98.82
Abosrb	< 0.25 a.u (10% water solution -280nm)	0.12 a.u
Particle Size	NLT 90 % through 100 mesh	Conforms
Bulk Density	NLT 0.45 g/ml	0.46 g/ml
Tapped Density	Meets requirements of USP37	Conforms
Residue on Ignition	NMT 0.1 %	0.07 %
Loss on Drying %	NMT 0.5 %	0.22 %
Chloride (Cl)	NMT 0.2 %	0.08 %
Melting Range	196° – 205° C	200.5° – 201.4° C
Organic Volatile	Meets requirements	Conforms
Total Aerobic	NMT 1000 cfu/g	NMT 100 cfu/g
Yeast & Mold	NMT 100 cfu/g	NMT 30 cfu/6
E. Coli	Negative in 1g	Negative
Salmonella	Negative in 1g	Negative
Staphylococcus Aureus	Negative in 10g	Negative
Enterobacteria & Other gram neg.	NMT 100 cfu/g	NMT 30 cfu/g
Heavy Metals	NMT 10 ppm	Conforms
Arsenic	NMT 1.0 ppm	Conforms

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Cadmium	NMT 0.5 ppm	Conforms
Lead	NMT 0.5 ppm	0.08
Mercury	NMT 0.1 ppm	0.04
Iron	NMT 10 ppm	Conforms

Shelf-life & Storage: Expiry from the date of manufacture is only if stored under dry, ambient conditions in a sealed container away from direct light.

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