

CERTIFICATE OF ANALYSIS

Product Name: N-Acetyl-D-Glucosamine NAG Powder

INCI Name: Acetyl Glucosamine

CAS No.: 7512-17-6

Molecular Formula: C₈H₁₅NO₆

Product Grade: Cosmetic Grade

Lot No.: BPCNAGP102026

Origin: USA

Expiry Date: October 10, 2029

Test Item	Specification	Result
Appearance	White powder	Pass
Assay (Dry Basis)	98.0–102.0%	99.96%
Specific Rotation	39°–43°	40.61°
Chloride	NMT 0.5%	0.25%
pH	5.0–8.0	7.10
Loss on Drying	NMT 0.5%	0.15%
Residue on Ignition	NMT 0.5%	0.2%
Heavy Metals	NMT 10 ppm	<10 ppm
Arsenic (As ₂ O ₃)	NMT 1 ppm	<1 ppm
Melting Point	196–205°C	Pass
Total Bacteria Count	<1,000 CFU/g (USP 2021)	Pass
Yeast & Mold	<100 CFU/g (USP 2021)	Pass
Salmonella	Negative (USP 2022)	Negative
<i>E. coli</i>	Negative (USP 2022)	Negative
<i>Staphylococcus aureus</i>	Negative (USP 2022)	Negative

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