



Certificate of Analysis

N-Acetyl-D-Glucosamine

Catalog Number: AG1014
Lot Number: 1109702
CAS Number: 7512-17-6
Synonym(s): 2-Acetamido-2-deoxy-D-glucopyranose, GlcNAc
Molecular Formula: C₈H₁₅NO₆
Molecular Weight: 221.21
Storage: 2°C – 8°C
Date of Manufacture: April 26, 2017
Retest Date: April 25, 2019

Test	Specification	Result
Appearance	White to off-white crystalline powder	Conforms
Assay	≥ 98.0%	99.2%
Specific Rotation	+39.0° to +45°	+40.6°
Identification (FTIR)	To match reference spectra	Conforms
Melting Point	192°C – 205°C	200°C – 202°C
Solubility (5% in H ₂ O)	Clear to slight haze, colorless to light yellow	Conforms
Moisture (LOD)	≤ 1.0%	0.40%
Residue on Ignition	≤ 1.0%	0.15%
Heavy Metals	≤ 10ppm	< 10ppm

Approved by:

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Date: November 9, 2017