

Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number	27075
Lot Number	001684-20140418
Product	β-D-Glucosamine pentaacetate 1,2,3,4,6-penta- <i>O</i> -acetyl- α -D-glucosamine 2-Acetamido-2-deoxy- β -D-glucopyranose 1,3,4,6-tetraacetate
CAS Number	7772-79-4
Molecular Formula	C ₁₆ H ₂₃ NO ₁₀
Molecular Weight	389.36
Appearance	White crystalline powder
Solubility	Soluble in DMF and insoluble in water
Melting Point	185-187 °C
Water Content (Karl Fisher)	< 0.5%
Optical Rotation	[α] _D ²⁰ = 1.47° (C=4 in CHCl ₃)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
¹H NMR	Conforms to structure
Purity by HPLC	99.2%
Storage	Store at 0-8 °C
Additional Information	Alpha isomer: 0.02%

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Remarks

See material safety data sheet for additional information
For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager