

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: N-Acetyl-beta-D-mannosamine Hydrate_

Catalog Number: 100109_

Lot: MR28795_

Formula: $C_8H_{15}NO_6 \cdot H_2O$

CAS #: 4773-29-9

Physical Description: White Powder

Formula Weight: 239.2

Storage: -0°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	~95%	99.6%
FTIR	Conforms to Standard	Conforms to Standard
Specific Rotation	$+10.2^\circ \pm 0.5^\circ$	$+9.7^\circ$ (c=2, H ₂ O)
Moisture	$\leq 8.0\%$	3.9 %
Residue on Ignition	$\leq 0.1\%$	0.02%
Heavy Metals	≤ 10 ppm	<10 ppm
Chloride	≤ 50 ppm	<50 ppm

Christina Marotta

09/30/2011 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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<http://www.mpbio.com>

Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)