

MP Biomedicals, LLC29525 Fountain Parkway
Solon, Ohio 44139Telephone: 440/337-1200
Toll Free: 800/854-0530

Certificate of Analysis

Product Description: N-Acetyl-beta-D-mannosamine Hydrate
Catalog Number: 100109
Lot: QR14398**Formula:** $C_8H_{15}NO_6 \cdot H_2O$ **CAS #:** 4773-29-9**Physical Description:** White Powder**Formula Weight:** 239.2**Storage:** -20°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	~95%	99.7%
FTIR	Conforms to Standard	Conforms to Standard
Specific Rotation	$+10.2^\circ \pm 0.5^\circ$	$+9.9^\circ$
Moisture	$\leq 8.0\%$	4.84%
Residue on Ignition	$\leq 0.1\%$	0.02%
Heavy Metals	≤ 10 ppm	≤ 10 ppm
Chloride	≤ 50 ppm	≤ 50 ppm

Recommended Retest Date: 07/11/2020

A handwritten signature in black ink, appearing to read 'J Huang'.

07/13/2017 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control ManagerThis is an electronically generated document
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