

**MP Biomedicals, LLC**29525 Fountain Parkway  
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## Certificate of Analysis

**Product Description:** N-Acetyl-beta-D-mannosamine Hydrate  
**Catalog Number:** 100109  
**Lot:** SR05467**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            | $\leq 8.0\%$                | 4.64%                |
| Residue on Ignition | $\leq 0.1\%$                | 0.02%                |
| Heavy Metals        | $\leq 10$ ppm               | $\leq 10$ ppm        |
| Chloride            | $\leq 50$ ppm               | $\leq 50$ ppm        |

Recommended Retest Date (MM/DD/YYYY): 04/21/2024

04/26/2022 - Lily Meng  
MP Biomedicals, LLC.  
QC ChemistThis is an electronically generated document  
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