

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-07-30 13:54:15  
Date of Next Testing: 2026-07-29 13:54:15  
Product Name: **1,2,3,4,6-Penta-O-acetyl- $\alpha$ -D-mannopyranose**  
CAS Number: 4163-65-9  
Specifications & Purity:  $\geq$ 98%  
Lot #: G2228080  
SKU #: **P292266**  
**Analysis:** **095085**  
Storage Temperature: Store at -20°C

| Parameter  | Limit Values                            | Result                                  |
|--|---|---|
| Purity(HPLC)                                     | 98-100 (%)                              | 99.89600 %                              |
| Specific rotation $[\alpha]_{20/D}(C=1, CHCl_3)$ | 51-57(°)                                | 56.98 °                                 |
| Appearance(P292266)                              | White to light brown powder or crystals | white to light brown powder or crystals |
| Proton NMR spectrum                              | Conforms to Structure                   | Conforms to Structure                   |



John Su  
QA & QC Manager