

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-04-17 10:01:32  
Date of Next Testing: 2027-04-16 10:01:32  
Product Name: **4-Nitrophenyl  $\alpha$ -D-Mannopyranoside**  
CAS Number: 10357-27-4  
Specifications & Purity: >98.0%(HPLC)  
Lot #: D23081356  
SKU #: **N159659**  
**Analysis: 189820**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	99.85 %
Melting point	173-189 (°C)	173.12000 °C
Specific rotation $[\alpha]_{20/D}(c=0.2$ in H <sub>2</sub> O)	150-170 (°)	151.36 °
Appearance(N159659)	White to Orange to Green powder to crystal	White to Orange to Green powder to crystal
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager