

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-11-08 10:42:59  
Date of Next Testing: 2028-11-07 10:42:59  
Product Name: **Maltotetraose**  
CAS Number: 34612-38-9  
Specifications & Purity:  $\geq 97\%$   
Lot #: K2401473  
SKU #: **M121069**  
Version: **0**  
Analysis #: **420251**  
Storage Temperature: Protected from light, Store at  $-20^{\circ}\text{C}$ , Argon charged

| Parameter   | Limit Values           | Result                |
|---|------------------------|-----------------------|
| Purity(HPLC)  | 97-100 (%)             | 99.42600%             |
| Specific Rotation $[\alpha]_{20}^D(c=1 \text{ in H}_2\text{O})$ | 165-177 ( $^{\circ}$ ) | 165.65 $^{\circ}$     |
| Appearance (M121069)  | white powder           | White powder          |
| Proton NMR spectrum   | Conforms to Structure  | Conforms to Structure |
| Infrared spectrum   | Conforms to Structure  | Conforms to Structure |
| Solubility, Colorless and clear(5% in H <sub>2</sub> O)         | pass                   | Pass                  |



John Su  
QA & QC Manager