

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-25 17:13:31  
 Date of Next Testing: 2028-12-24 17:13:31  
 Product Name: **Maltoheptaose**  
 CAS Number: 34620-78-5  
 Specifications & Purity:  $\geq 80\%$   
 Lot #: L2417342  
 SKU #: **M121063**  
 Version: **0**  
 Analysis #: **073633**  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                                                       | Limit Values                                     | Result                                           |
|---------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| Purity(HPLC)                                                                    | 80-100 (%)                                       | 93.05400 %                                       |
| Maltohexaose                                                                    | 0-15 (%)                                         | 8.50000 %                                        |
| Maltopentaose                                                                   | 0-5 (%)                                          | 0.36000 %                                        |
| Water by Karl Fischer                                                           | 0-10 (%)                                         | 2.84200 %                                        |
| Specific Rotation $[\alpha]_{25/D(c=1 \text{ in H}_2\text{O})}$                 | 175-190 (°)                                      | 175.13000 °                                      |
| Appearance (M121063)                                                            | White to off-white powder, needles and/or Chunks | White to off-white powder, needles and/or Chunks |
| Solubility in H <sub>2</sub> O , Colorless ,Clear ,50 mg/mL in H <sub>2</sub> O | pass                                             | Pass                                             |
| Infrared spectrum                                                               | Conforms to Structure                            | Conforms to Structure                            |



John Su  
QA & QC Manager