

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-03-12 14:37:27

Date of Next Testing: 2028-03-11 14:37:27

Product Name: **Isomaltose**

CAS Number: 499-40-1

Specifications & Purity:  $\geq 98\%$ , mixture of isomer

Lot #: C2401121

SKU #: **I120961**

Version: **1**

Analysis #: **323272**

Storage Temperature: Room temperature, Argon charged

| Parameter                                                         | Limit Values           | Result                                            |
|-------------------------------------------------------------------|------------------------|---------------------------------------------------|
| Purity(HPLC)(mixture of isomers)                                  | 98-100 (%)             | 99.40000 %                                        |
| Specific Rotation $[\alpha]_{20/D}(c=0.7 \text{ in H}_2\text{O})$ | 108-118 (°)            | 115.00000 °                                       |
| Carbon by Elemental Analysis                                      | 41.56-42.56 (%)        | 41.66000 %                                        |
| Solubility in H <sub>2</sub> O                                    | Almost transparency    | almost transparency                               |
| Appearance (I120961)                                              | White to Yellow Powder | White to Almost white to yellow powder to crystal |
| Infrared spectrum                                                 | Conforms to Structure  | Conforms to Structure                             |
| NMR Spectrum 1H (D <sub>2</sub> O)                                | Consistent             | Consistent                                        |



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QA & QC Manager