

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-09 16:55:43
 Date of Next Testing: 2027-01-08 16:55:43
 Product Name: **Isomaltose**
 CAS Number: 499-40-1
 Specifications & Purity: $\geq 98\%$, mixture of isomer
 Lot #: A2305456
 SKU #: **I120961**
 Version: **1**
 Analysis #: **161904**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)(mixture of isomers)	97-100 (%)	99.90000 %
Specific Rotation $[\alpha]_{20/D}(c=0.7 \text{ in H}_2\text{O})$	108-118 (°)	116.00000 °
Carbon by Elemental Analysis	41.56-42.56 (%)	41.85000 %
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O	Almost transparency	almost transparency
Appearance (I120961)	White to Yellow Powder	White to Yellow Powder
NMR Spectrum 1H (D ₂ O)	Consistent	Consistent



John Su
QA & QC Manager