

Certificate of Analysis

Date of Testing: 2025-03-24 17:18:52

Date of Next Testing: 2029-03-23 17:18:52

Product Name: **Isomaltose**

CAS Number: 499-40-1

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

Lot #: C2517222

SKU #: **I120961**

Version: **1**

Analysis #: **483038**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)(mixture of isomers)	98-100 (%)	99.50 %
Specific Rotation $[\alpha]_{20/D}(c=0.7 \text{ in } H_2O)$	106-118 ($^{\circ}$)	115.00 $^{\circ}$
Carbon by Elemental Analysis	41.56-42.56 (%)	41.86 %
Appearance (I120961)	White to Almost white to Yellow Powder to Crystal	White to Almost white to yellow powder to crystal
Infrared spectrum	Conforms to Structure	Conforms to Structure
NMR Spectrum 1H (D_2O)	Consistent	Consistent
Solubility in H_2O	Almost transparency	almost transparency



John Su
QA & QC Manager