

## Certificate of Analysis

Product Name:

D-(+)-Maltose monohydrate - BioXtra, ≥99%

Product Number:

M9171

Batch Number:

SLCH6707

Brand:

SIAL

CAS Number:

6363-53-7

MDL Number:

MFCD00149343

Formula:

C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> · H<sub>2</sub>O

Formula Weight:

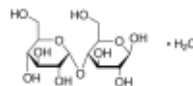
360.31 g/mol

Quality Release Date:

13 NOV 2020

Recommended Retest Date:

SEP 2026



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity) (1 M in H <sub>2</sub> O)	Clear	Clear
Water (by Karl Fischer)	4.5 - 6.5 %	5.2 %
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash)	≤ 0.1 %	0.0 %
Insoluble Matter	≤ 0.1 %	0.0 %
Sulfate (SO <sub>4</sub> )	≤ 0.005 %	< 0.001 %
Chloride Content	≤ 0.003 %	< 0.001 %
Aluminum (Al)	≤ 0.0005 %	< 0.0005 %
Phosphorus (P)	≤ 0.0005 %	< 0.0005 %
Lead (Pb)	≤ 0.001 %	< 0.001 %
Iron (Fe)	≤ 0.0005 %	< 0.0005 %
Copper (Cu)	≤ 0.0005 %	< 0.0005 %
Zinc (Zn)	≤ 0.0005 %	< 0.0005 %
Calcium (Ca)	≤ 0.0005 %	< 0.0005 %
Magnesium (Mg)	≤ 0.0005 %	< 0.0005 %
Sodium (Na)	≤ 0.005 %	< 0.005 %
Potassium (K)	≤ 0.005 %	< 0.005 %
Ammonia (NH <sub>4</sub> )	≤ 0.05 %	< 0.00 %

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



## Certificate of Analysis

**Product Number:** M9171  
**Batch Number:** SLCH6707

Test	Specification	Result
HPLC w/ pulsed Amperometry	$\geq$ 99 %	99 %
Impurity	$\leq$ 0.3 %	0.0 %
Glucose		
Impurity	$\leq$ 1.0 %	0.5 %
Maltotriose		



Brian Dulle, Supervisor  
Quality Assurance  
St. Louis, Missouri US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

