

1. Identification

Catalogue Number

TRC-M160653

Lot Number

3-SEH-64-1

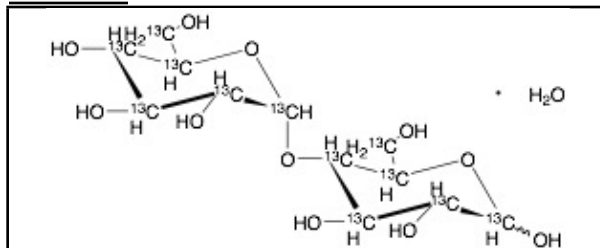
Product Name

D-(+)-Maltose Monohydrate- $^{13}\text{C}_{12}$

Synonyms

4-O- α -D-[UL- $^{13}\text{C}_6$]Glucopyranosyl-D-[UL- $^{13}\text{C}_6$]glucose

Structure



CAS Number

N/A

Solubility

Methanol (Slightly), Water (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

$^{13}\text{C}_{12}\text{H}_{24}\text{O}_{12}$

Source of Product

N/A

Long Term Storage Conditions

4°C, Inert atmosphere

Molecular Weight

372.22

Purity

97%

2. Warnings

Not Determined

3. Analytical Information



<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White to Off-White Solid	White Solid
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	96.46% (ELSD)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	97.5%
Specific Rotation	Report Result	+141.7° (c = 0.1, Water; 4 Hours)

Additional Information

Normalized Intensity: $^{13}\text{C}_0$ = 0.00%, $^{13}\text{C}_1$ = 0.26%, $^{13}\text{C}_2$ = 0.00%, $^{13}\text{C}_3$ = 0.00%, $^{13}\text{C}_4$ = 0.00%, $^{13}\text{C}_5$ = 0.00%, $^{13}\text{C}_6$ = 0.00%, $^{13}\text{C}_7$ = 1.18%, $^{13}\text{C}_8$ = 0.00%, $^{13}\text{C}_9$ = 4.46%, $^{13}\text{C}_{10}$ = 0.00%, $^{13}\text{C}_{11}$ = 8.35%, $^{13}\text{C}_{12}$ = 85.75%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed.
The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
Evan Burns			3/15/2022	3/13/2026
Evan Burns	Toni Rantanen	Chanell Chu		
Product Quality Specialist	Manager, Quality Assurance	Jr. Quality Assurance		