

[Jump to Website](#)

[Request Quote](#)

Product Specifications

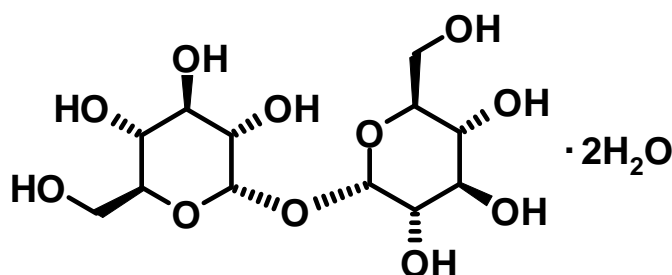
D-(+)-Trehalose Dihydrate

CAS 6138-23-4

Syn: α,α -Trehalose; α -D-Glucopyranosyl- α -D-glucopyranoside

Grade: cGMP, Conforms to EP 7.0 for parenteral use.

Structure:



Mol. Formula
Botanical Source
Catalyst

$C_{12}H_{22}O_{11} \cdot 2H_2O$
Tapioca starch (Cassava root)
Trehalose Synthase
Enzyme Nomenclature 2.4.1.245
(EC 2.4.1.245)

Mol. Wt. 378.33

<i>Test</i>	<i>Specification</i>
Appearance	White microcryst. solid
Solubility	Freely soluble in water, slightly soluble in MeOH, practically insoluble in EtOH (96%)
Identity A (EP <2.2.24>)	IR
Identity B	Violet color develops
Identity C	No brown color develops
Appearance of Solution	Solution S is clear (EP <2.2.1>) and colorless (EP <2.2.2, Method II>)
pH (EP <2.2.3>)	4.5-6.5
Sp. Rot., $[\alpha]_D$ (EP <2.2.7>)	+197-+201° (anhydrous)
Heavy Metals (EP <2.4.8>)	≤ 5 ppm
Chlorides (EP <2.4.4>)	≤ 125 ppm

- cont'd -

- cont'd-

<i>Test</i>	<i>Specification</i>
Sulfates (EP <2.4.13>)	≤ 200 ppm
Soluble Starch (EP)	No blue color develops
Water (EP <2.5.12>)	9-11%
Assay (EP <2.2.29>)	≥ 99%
Impurity A (Glucose)	≤ 0.5%
Impurity B (Oligosaccharides)	≤ 0.5%
Unspecified Impurities (EP <2.2.29>)	≤ 0.2% (each)
Total Impurities (EP <2.2.29>)	≤ 1% (each)
Residual Solvents	
MeOH	< 3,000 ppm
EtOH	< 5,000 ppm
Methyl Isobutyl Ketone	< 5,000 ppm
Sulfated Ash (EP <2.4.13>)	≤ 0.1%
<u>Microbiological Specification</u>	
Total Aerobic (EP <2.6.12>)	≤ 100 CFU/g
<i>E. Coli</i> (EP <2.6.13>)	negative
<i>Salmonella</i> (EP <2.6.13>)	negative
Mold and Yeast (EP <2.6.12>)	≤100 CFU/g
Endotoxin Level (EP <2.6.14>)	≤ 2.5 EU/ mg

Storage: Maintain in cool, dry containment.