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Product Specifications

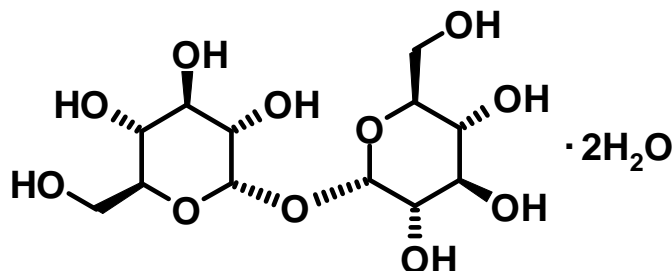
D-(+)-Trehalose Dihydrate

CAS 6138-23-4

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

Grade: non-cGMP

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

Test

Specification

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
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
Sulfates (EP <2.4.13>)	≤ 200 ppm
Water (EP <2.5.12>)	9-11%

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<i>Test</i>	<i>Specification</i>
Purity (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)
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

Storage: Maintain in cool, dry containment.