Glentham Life Sciences Ltd
Unit 5 Leafield Way
Corsham SN13 9SW
United Kingdom

t: +44 (0) 1225 667 798
f: +44 (0) 2033 978 909
e: info@glentham.com
w: www.glentham.com

Product Datasheet

GC1201 - D-(+)-Trehalose dihydrate, Ph. Eur. grade

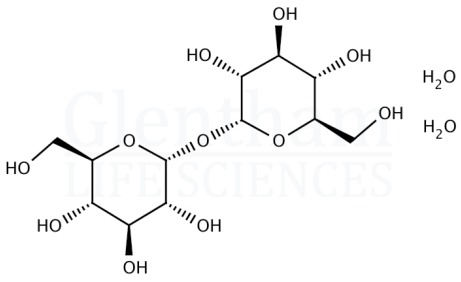
Product Details

Product Name	D-(+)-Trehalose dihydrate, Ph. Eur. grade
Glentham Code	GC1201
CAS Number	6138-23-4
EINECS	202-739-6
MDL Number	MFCD00071594
Additional CAS	99-20-7
Related Categories	Carbohydrates, Core Carbohydrates, Biochemicals, Reagents for Cell Culture, Oligosaccharides

Structure

Molecular Weight : 378.33

Molecular Formula : $C_{12}H_{22}O_{11} \cdot 2H_2O$



Storage

Recommended storage temperature: +20°C.

Hazards and Transport

Not classified as hazardous under CLP.

Not classified as dangerous for transport.

Glentham Product Specification

Physical Description	:	White crystalline powder
Identification	:	A, B, C according to Ph. Eur.
Solubility (10% in water)	:	Clear, colourless solution
pH (10% in water)	:	4.5 - 6.5
Specific Optical Rotation	:	+197 - +201 °
Impurity A	:	≤ 0.5% (glucose)
Impurity B	:	≤ 0.5% (oligosaccharides)
Any Unspecified Impurity	:	≤ 0.2%
Total Impurities	:	≤ 1.0%
Chlorides	:	≤ 125ppm
Sulphates	:	≤ 200ppm
Heavy Metals	:	≤ 5ppm
Soluble Starch	:	To pass test (no blue colour)
Sulphated Ash	:	≤ 0.1%
Water	:	9.0 - 11.0 %
Total Aerobic Microbial Count	:	≤ 1000CFU/g
Total Yeast and Mould Count	:	≤ 100CFU/g
Escherichia coli	:	Absent
Salmonella	:	Absent
Assay	:	99.0 - 101.0 % (anhydrous basis)
Pharmacopoeia Specification(s)	:	Ph. Eur.
Version	:	v1.0

About D-(+)-Trehalose dihydrate, Ph. Eur. grade

Trehalose is a disaccharide composed of two α-glucose units. It is a carbohydrate reserve in microorganisms and aids in surviving adverse environmental conditions such as freezing and dehydration. Trehalose can be used as a cryoprotectant in cell-freezing media.