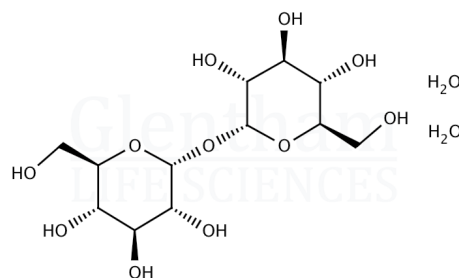


Certificate of Analysis

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
Batch Number	725GEL
Molecular Weight	378.33
Molecular Formula	$C_{12}H_{22}O_{11} \cdot 2H_2O$
Storage Temp.	+20°C



Property	Specification	Batch 725GEL
Physical Description	White crystalline powder	White crystalline powder
Identification	A, B, C according to Ph. Eur.	Conforms
Solubility (10% in water)	Clear, colourless solution	Conforms
pH (10% in water)	4.5 - 6.5	5.9
Specific Optical Rotation	+197 - +201 °	+199 °
Impurity A	≤ 0.5% (glucose)	0.3%
Impurity B	≤ 0.5% (oligosaccharides)	0.4%
Any Unspecified Impurity	≤ 0.2%	0.0%
Total Impurities	≤ 1.0%	0.7%
Chlorides	≤ 125ppm	Conforms
Sulphates	≤ 200ppm	Conforms
Heavy Metals	≤ 5ppm	Conforms
Soluble Starch	To pass test (no blue colour)	Conforms
Sulphated Ash	≤ 0.1%	0.0%
Water	9.0 - 11.0 %	9.8%
Total Aerobic Microbial Count	≤ 1000CFU/g	0CFU/g
Total Yeast and Mould Count	≤ 100CFU/g	0CFU/g
Escherichia coli	Absent	Conforms
Salmonella	Absent	Conforms
Assay	99.0 - 101.0 % (anhydrous basis)	99.3%
Pharmacopoeia Specification(s)	Ph. Eur.	Conforms

Specification Version	v1.0
Manufacture Date	2022-04-15
Re-Test Date	2030-02-09

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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