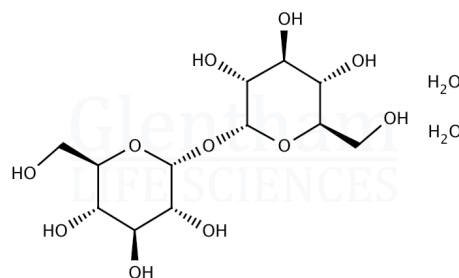


## Certificate of Analysis

Product Name D-(+)-Trehalose dihydrate  
Glentham Code GC7900  
CAS Number 6138-23-4  
EINECS 202-739-6  
MDL Number MFCD00071594  
Additional CAS 99-20-7 (anhydrous)  
PubChem SID 310281106  
Batch Number 428EXI

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



Property	Specification	Batch 428EXI
Physical Description	White to almost white crystalline powder	White crystalline powder
Loss on Drying	≤ 1.5% (60°C, 5h)	0.1%
Water	≤ 11.0%	9.7%
pH (30% solution)	4.5 - 6.5	5.6
Colour of Solution	≤ 0.100	0.003
Turbidity	≤ 0.050	0.000
Residue on Ignition	≤ 0.05%	0.00%
Heavy Metals (as Pb)	≤ 1ppm	Conforms
Lead (Pb)	≤ 0.1ppm	Conforms
Arsenic (As2O3)	≤ 1ppm	Conforms
Assay	≥ 98.0% (Trehalose, dry basis)	99.3%
Total Aerobic Microbial Count	≤ 300CFU/g	0CFU/g
Total Coliforms	None detected	Conforms
Total Combined Yeast and Mould Count	≤ 100CFU/g	1CFU/g

Specification Version v1.0  
Manufacture Date 2021-09-20  
Re-Test Date 2030-03-07

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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