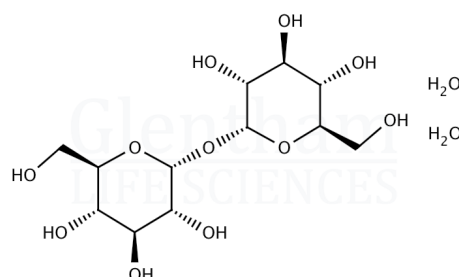


## Product Specification

|                    |                                           |
|--------------------|-------------------------------------------|
| Product Name       | D-(+)-Trehalose dihydrate, Ph. Eur. grade |
| Glentham Code      | GC1201                                    |
| CAS Number         | 6138-23-4                                 |
| EINECS             | 202-739-6                                 |
| Numéro MDL         | MFCD00071594                              |
| CAS supplémentaire | 99-20-7                                   |

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



| Property                       | 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.                         |

|                       |   |            |
|-----------------------|---|------------|
| Specification Version | - | v1.0       |
| Date Created          | - | 2016-09-01 |

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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