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## Certificate of Analysis

Product Name D-Raffinose pentahydrate

 Glentham Code
 GC4633

 CAS Number
 17629-30-0

 EINECS
 208-146-9

 MDL Number
 MFCD00071590

 PubChem SID
 310279593

 Batch Number
 997ZFT

Molecular Weight 594.52

Molecular Formula  $C_{18}H_{32}O_{16} \cdot 5H_2O$ 

Storage Temp. +20°C

 $H_2O$   $H_2O$ 

Property Specification Batch 997ZFT Physical Description White or almost white crystalline powder White powder Identification (IR) To conform to standard Conforms Solubility (5% in water) Clear, colourless solution Conforms +103.0 - +108.0 ° (c=10, water) +104.2° Specific Optical Rotation 79.0 - 80.5 °C Melting Point 78.0 - 82.0 °C 0.03% Residue on Ignition ≤ 0.1% Heavy Metals ≤ 10ppm Conforms 14 75% 13.0 - 17.0 % Loss on Drying Assay (HPLC) ≥ 98.0% 98.91%

Specification Version v1.2

Manufacture Date 2020-03-13

Re-Test Date 2027-12-09

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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