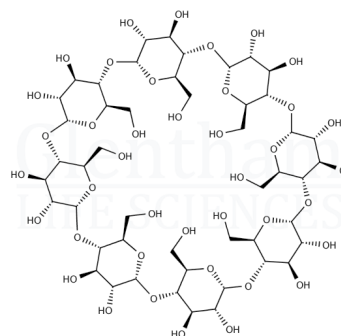


Certificate of Analysis

Product Name gamma-Cyclodextrin
Glentham Code GC9842
CAS Number 17465-86-0
EINECS 241-482-4
MDL Number MFCD00009595
Additional CAS 91464-90-3
PubChem SID 310270643
Batch Number 046PVT

Molecular Weight 1297.12 (anhydrous)
Molecular Formula $C_{48}H_{80}O_{40} \cdot xH_2O$
Storage Temp. +20°C



Property	Specification	Batch 046PVT
Physical Description	White or almost white powder	White powder
Solubility (5% in 1M NH4OH)	Clear to faintly turbid, colourless solution	Conforms
Specific Optical Rotation ($[\alpha]_{20/D}$)	+173 - +180 ° (c=1, water)	+176.7°
Loss on Drying	≤ 12.0%	8.5%
Assay	≥ 98.0% (dried basis)	99.4%

Specification Version v1.1
Manufacture Date 2023-12-30
Re-Test Date 2033-03-04

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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