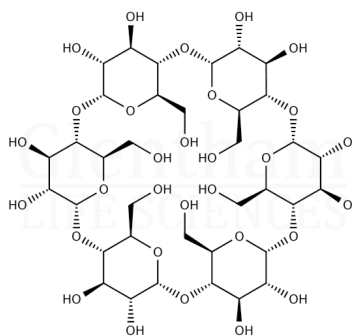


Certificate of Analysis

Product Name alpha-Cyclodextrin
Glentham Code GC6443
CAS Number 10016-20-3
EINECS 233-007-4
MDL Number MFCD00078207
PubChem SID 310270644
Batch Number 283HER

Molecular Weight 972.86
Molecular Formula $C_{36}H_{60}O_{30} \cdot xH_2O$
Storage Temp. +20°C



Property	Specification	Batch 283HER
Physical Description	White powder	Conforms
Solubility (1% in water)	Clear, colourless solution	Conforms
Specific Optical Rotation ($[\alpha]_{25/D}$)	+145 - +151 ° (c=1, water)	+147°
Lead (Pb)	≤ 0.5ppm	≤ 0.5ppm
Arsenic (As)	≤ 2ppm	≤ 1ppm
Heavy Metals	≤ 5ppm	≤ 5ppm
Residue on Ignition	≤ 0.1%	0.0%
Loss on Drying	≤ 16.0%	11.1%
Purity (HPLC)	≥ 98%	≥ 99%

Specification Version v1.1
Manufacture Date 2017-01-16
Re-Test Date 2027-01-05

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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