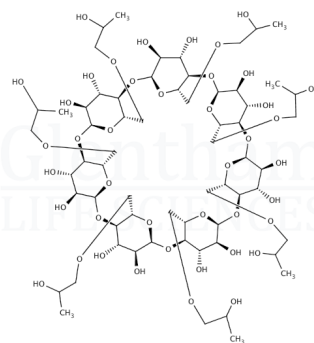


Certificate of Analysis

Product Name	2-Hydroxypropyl-beta-cyclodextrin, EP, USP grade
Glentham Code	GE5877
CAS Number	128446-35-5
EINECS	420-920-1
MDL Number	MFCD00069372
Additional CAS	94035-02-6
Batch Number	871VHN
Molecular Weight	N/A
Molecular Formula	N/A
Storage Temp.	+20°C



Property	Specification	Batch 871VHN
Physical Description	White or almost white crystalline powder	White crystalline powder
Identification	A, B according to EP, USP	Conforms
Solubility (5% in water)	Clear, colourless solution (including after cooling)	Clear, colourless solution
Conductivity	≤ 200μS/cm (5% in water)	75μS/cm
Impurity A	≤ 1.5% (betadex)	0.4%
Impurity B	≤ 2.5% (propylene glycol)	< 0.1%
Any Other Individual Impurity	≤ 0.25%	0.0%
Total Impurities	≤ 1.0% (excluding A + B)	0.0%
Heavy Metals	≤ 20ppm	Conforms
Loss on Drying	≤ 10.0%	4.1%
Molar Substitution	0.4 - 1.5 (NMR)	0.7
Pharmacopoeia Specification(s)	EP, USP	Conforms

Specification Version	v1.1
Manufacture Date	2023-07-31
Re-Test Date	2031-06-27

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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