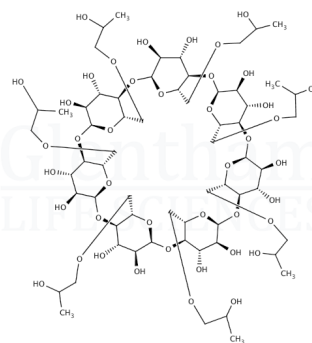


## Certificate of Analysis

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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