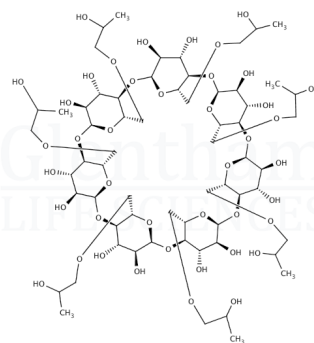


## Certificate of Analysis

Product Name	2-Hydroxypropyl-beta-cyclodextrin, USP grade
Glentham Code	GE3201
CAS Number	128446-35-5
EINECS	420-920-1
MDL Number	MFCD00069372
Additional CAS	94035-02-6
Batch Number	240TKV
Molecular Weight	N/A
Molecular Formula	N/A
Storage Temp.	+20°C



Property	Specification	Batch 240TKV
Physical Description	White or almost white crystalline powder	White crystalline powder
Identification (IR)	To conform to standard	Conforms
Solubility (50% in water)	Clear solution	Conforms
Heavy Metals	≤ 20ppm	Conforms
Loss on Drying	≤ 10.0%	3.6%
Conductivity	≤ 200μS/cm (10% in water)	66μS/cm
Betadex	≤ 1.5%	0.34%
Any Other Individual Impurity	≤ 0.25%	Conforms
Total Other Impurities	≤ 1.0%	Conforms
Propylene Glycol	≤ 2.5%	0.05%
Propylene Oxide	≤ 1ppm	Conforms
Molar Substitution	Reported	0.7
Total Aerobic Microbial Count	≤ 1000CFU/g	≤ 10CFU/g
Total Combined Yeast and Mould Count	≤ 100CFU/g	≤ 10CFU/g
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version	v1.0
Manufacture Date	2022-03-12
Re-Test Date	2030-02-12

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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