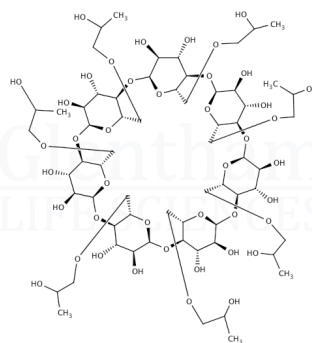


Certificate of Analysis

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 or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2024