

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2022-11-11 15:32:46
Date of Next Testing:	2026-11-10 15:32:46
Product Name:	(2-Hydroxypropyl)-γ-cyclodextrin
CAS Number:	128446-34-4
Specifications & Purity:	average Mw ~1,580
Lot #:	K2204402
SKU #	H102030
Version	0
Analysis #:	117459

Parameter	Limit Values	Result
Purity(Cyclodextrine Content Cal.)	98-100 (%)	99.87 %
PH(2% in Water)	6-9	7.39
Propylene glycol	0-0.1 (%)	0.04 %
Unsubstituted Cyclodextrine	0-1.5 (%)	1.05 %
Absorbance(220-350nm,2 % in H2O)	0-0.5	0.04
Loss on drying	0-5 (%)	0.00 %
Heavy metals	0-5 (ppm)	0.67 ppm
Volatile Impurities (decan)	0-50 (ppm)	25.58 ppm
Absorbance(350-660nm,2 % in H2O)	0-0.5	0.00
Molar Substitution	0.5-0.7	0.64
Ignition Residue	0-0.1 (%)	0.10 %
Appearance (H102030)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager