

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-08 14:13:00
 Date of Next Testing: 2027-03-07 14:13:00
 Product Name: (2-Hydroxypropyl)- γ -cyclodextrin(HP- γ -CD)
 CAS Number: 128446-34-4
 Specifications & Purity: average Mw ~1,580
 Lot #: E1914001
 SKU #: H102030
 Version: 0
 Analysis #: 195685
 Storage Temperature: Room temperature, Desiccated, Cool

Parameter	Limit Values	Result
Purity(Cyclodextrine Content Cal.)	98-100 (%)	99.99200 %
Ignition Residue	0-0.1 (%)	0.00000 %
PH(2% in Water)	6-9	6.02000
Propylene glycol	0-0.1 (%)	0.04800 %
Unsubstituted Cyclodextrine	0-1.5 (%)	1.20000 %
Absorbance(220-350nm, 2 % in H ₂ O)	0-0.5	0.09500
Loss on drying	0-5 (%)	4.99420 %
Heavy metals	0-5 (ppm)	0.00000 ppm
Volatile Impurities (decan)	0-50 (ppm)	30.00000 ppm
Absorbance(350-660nm, 2 % in H ₂ O)	0-0.5	0.00700
Molar Substitution	0.5-0.7	0.60000
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



QualityAssurance@aladdinsci.com

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

John Su
QA & QC Manager