

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-03 13:48:12
 Date of Next Testing: 2028-12-02 13:48:12
 Product Name: (2-Hydroxypropyl)- β -cyclodextrin
 CAS Number: 128446-35-5
 Specifications & Purity: $\geq 97\%$
 Lot #: K2429454
 SKU #: H108813
 Version: 2
 Analysis #: 433270
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	99.84700 %
Water by Karl Fischer	0-7.5 (%)	4.18480 %
Molar substitution degree	0.4-1.5	0.68000
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in } H_2O)$	120-135 ($^{\circ}$)	134.97000 $^{\circ}$
Appearance (H108813)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless to Very Faint Yellow, Clear, 2g plus 5ml	pass	Pass



John Su
QA & QC Manager