

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-05-21 16:11:05
 Date of Next Testing: 2030-05-20 16:11:05
 Product Name: (2-Hydroxypropyl)- β -cyclodextrin
 CAS Number: 128446-35-5
 Specifications & Purity: $\geq 97\%$
 Lot #: E2611356
 SKU #: H108813
 Version: 2
 Analysis #: 698029
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	100.00000 %
Water by Karl Fischer	0-7.5 (%)	3.34640 %
Molar substitution degree	0.4-1.5	0.66000
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$	120-135 ($^{\circ}$)	134.95000 $^{\circ}$
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