

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-05-21 14:11:25  
Date of Next Testing: 2030-05-20 14:11:25  
Product Name: (2-Hydroxypropyl)- $\beta$ -cyclodextrin  
CAS Number: 128446-35-5  
Specifications & Purity:  $\geq 98\%$   
Lot #: E2612548  
SKU #: H1510197  
Version: 1  
Analysis #: 712434  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	100.00000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$	120-135 ( $^{\circ}$ )	134.95000 $^{\circ}$
Water by Karl Fischer	0-7.5 (%)	3.34640 %
Molar substitution degree	0.4-1.5	0.66000
Appearance(H1510197)	White to Off-White Powder	White to Off-White Powder
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless to Very Faint Yellow, Clear, 2g plus 5ml	pass	Pass



John Su  
QA & QC Manager