

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2026-05-21 15:05:02
Date of Next Testing:	2030-05-20 15:05:02
Product Name:	<b>(2-Hydroxypropyl)-<math>\beta</math>-cyclodextrin</b>
CAS Number:	128446-35-5
Specifications & Purity:	$\geq 97\%$
Lot #:	E2611357
SKU #	<b>H108813</b>
Version	<b>2</b>
<b>Analysis #:</b>	<b>698029</b>
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 <sub>2</sub> O , Colorless to Very Faint Yellow, Clear, 2g plus 5ml	pass	Pass



John Su  
QA & QC Manager