

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-07-22 14:34:21

Date of Next Testing: 2028-07-21 14:34:21

Product Name: (2-Hydroxypropyl)- β -cyclodextrin

CAS Number: 128446-35-5

Specifications & Purity: $\geq 97\%$

Lot #: G2408446

SKU #: H108813

Version: 2

Analysis #: 377889

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	99.64000 %
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in H}_2\text{O})}$	120-135 (°)	133.56900 °
Water by Karl Fischer	0-7.5 (%)	3.28550 %
beta-cyclodextrin (dry basis)	0-2 (%)	1.00000 %
NMR (degree of substitution)	2-6	2.66000
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