

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-11-18 13:48:04
 Date of Next Testing: 2028-11-17 13:48:04
 Product Name: (2-Hydroxypropyl)- β -cyclodextrin
 CAS Number: 128446-35-5
 Specifications & Purity: $\geq 97\%$
 Lot #: A2115223
 SKU #: H108813
 Version: 2
 Analysis #: 437987
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	99.20000 %
Specific Rotation [a] _D ²⁰ (c=1 in H ₂ O)	120-135 (°)	132.30000 °
Water by Karl Fischer	0-7.5 (%)	4.10000 %
NMR (degree of substitution)	2-6	2.30000
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