

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-02-22 09:19:45
 Date of Next Testing: 2028-02-21 09:19:45
 Product Name: (2-Hydroxypropyl)- β -cyclodextrin
 CAS Number: 128446-35-5
 Specifications & Purity: $\geq 97\%$
 Lot #: A2429218
 SKU #: H108813
 Version: 2
 Analysis #: 314036
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	99.53200 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$	120-135 (°)	134.98600 °
Water by Karl Fischer	0-7.5 (%)	4.34180 %
beta-cyclodextrin (dry basis)	0-2 (%)	1.03000 %
NMR (degree of substitution)	2-6	4.20000
Appearance (H108813)	White to Off-White Powder	White to Off-White Powder
Solubility in H ₂ O , Colorless to Very Faint Yellow, Clear, 2g plus 5ml	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager