

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-01-30 13:31:29
Date of Next Testing: 2030-01-29 13:31:29
Product Name: (2-Hydroxypropyl)- β -cyclodextrin
CAS Number: 128446-35-5
Specifications & Purity: $\geq 98\%$
Lot #: A2629093
SKU #: H1510197
Version: 1
Analysis #: 645793
Storage Temperature: Room temperature

| Parameter | Limit Values | Result |
|--|------------------------------|------------------------------|
| Purity(HPLC area) | 98-100 (%) | 99.93100 % |
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$ | 120-135 ($^{\circ}$) | 132.48300 $^{\circ}$ |
| Water by Karl Fischer | 0-7.5 (%) | 3.30450 % |
| Molar substitution degree | 0.4-1.5 | 0.68000 |
| Appearance(H1510197) | White to Off-White Powder | White to Off-White Powder |
| NMR Spectrum 1H | 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