

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-25 17:12:53

Date of Next Testing: 2027-04-24 17:12:53

Product Name: **α -Cyclodextrin**

CAS Number: 10016-20-3

Specifications & Purity: $\geq 98.0\%$ (HPLC)

Lot #: D2321815

SKU #: **C106777****Analysis: 159791**

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.41900 %
Ignition Residue (as sulfate)	0-0.05 (%)	0.03 %
Water by Karl Fischer	0-14.5 (%)	5.29 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})(\text{calcd. on anh. substance})$	146-153 ($^{\circ}$)	146.43 $^{\circ}$
Appearance (C106777)	white powder	White powder
Solubility, Colorless Clear , 1 mg/ml, H ₂ O	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager