

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-03-06 09:13:33

Date of Next Testing: 2028-03-05 09:13:33

Product Name:  **$\alpha$ -Cyclodextrin**

CAS Number: 10016-20-3

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

Lot #: C2401168

SKU #: **C106777**Analysis: **321749**

| Parameter  | Limit Values           | Result                |
|--|------------------------|-----------------------|
| Purity(HPLC)   | 98-100 (%)             | 99.12700 %            |
| Ignition Residue (as sulfate)  | 0-0.05 (%)             | 0.03 %                |
| Water by Karl Fischer  | 0-14.5 (%)             | 9.56 %                |
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})(\text{calcd. on anh. substance})$ | 146-153 ( $^{\circ}$ ) | 146.10 $^{\circ}$     |
| Appearance (C106777)   | white powder           | White powder          |
| Solubility, Colorless Clear , 1 mg/ml, H <sub>2</sub> O  | pass                   | Pass                  |
| Infrared spectrum  | Conforms to Structure  | Conforms to Structure |

John Su  
QA & QC Manager