

## Certificate of Analysis

Date of Testing: 2023-01-13 17:29:18  
Date of Next Testing: 2027-01-12 17:29:18  
Product Name: **α-Cyclodextrin**  
CAS Number: 10016-20-3  
Specifications & Purity: for cell culture, ≥98%  
Lot #: A2306328  
SKU #: **C106778**  
Analysis: **159160**

Parameter	Limit Values	Result
Water by Karl Fischer	0-14.5 (%)	6.19%
Purity(HPLC)	98-100 (%)	99.39100%
Specific Rotation [α] <sub>20</sub> /D(c=1 in H <sub>2</sub> O)(anhydrous)	147-152 (°)	147.23°
Appearance (C106778)	white powder	White powder
Solubility in H <sub>2</sub> O , Colorless Clear(10 mg/ml)	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Cell Culture Test	pass	Pass



John Su  
QA & QC Manager