

## Certificate of Analysis

Date of Testing: 2022-02-16 11:16:57  
 Date of Next Testing: 2026-02-15 11:16:57  
 Product Name: **γ-Cyclodextrin**  
 CAS Number: 17465-86-0  
 Specifications & Purity: 98%,for cell culture  
 Lot #: B2210226  
 SKU #: **C103967**  
**Analysis:** **056830**  
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	98.66400 %
Water by Karl Fischer	0-12 (%)	7.68 %
Specific Rotation [α] <sub>20</sub> /D(c=1 in H <sub>2</sub> O in as anhydride)	176-180 (°)	176.01 °
Appearance (C103967)	white powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in 1 M NH <sub>4</sub> OH , Colorless,Clear to Very Slightly Hazy,50 mg/mL	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Cell Culture Test	pass	Pass



John Su  
QA & QC Manager