

## Certificate of Analysis

Date of Testing: 2024-03-28 15:36:35  
Date of Next Testing: 2028-03-27 15:36:35  
Product Name: **γ-Cyclodextrin**  
CAS Number: 17465-86-0  
Specifications & Purity: 98%,for cell culture  
Lot #: C2421014  
SKU #: **C103967**  
**Analysis:** **138126**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.29400%
Water by Karl Fischer	0-12 (%)	8.71%
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O in as anhydride})$	176-180 (°)	176.01°
Appearance (C103967)	white powder	White powder
Cell Culture Test	pass	Pass
Proton NMR 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
Infrared spectrum	Conforms to Structure	Conforms to Structure



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