

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-09-12 16:30:22
Date of Next Testing: 2025-09-01 16:30:22
Product Name: **X-GlcA**
CAS Number: 114162-64-0
Specifications & Purity: 99%
Lot #: L2106115
SKU #: **B104857**
Analysis: 275079
Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis(anhydrous)	43.6-48.5 (%)	45.73%
Purity(HPLC)	99-100 (%)	99.22700%
Nitrogen by Elemental Analysis (anhydrous)	4.8-5.9 (%)	5.20%
Specific Rotation [α] ₂₅ /D(c=1 in DMF)	-92--85 (°)	-85.01°
Water by Karl Fischer	0-6 (%)	5.09%
Appearance (B104857)	white powder	White powder
beta-Glucuronidase detection test	to pass test	to pass test
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in DMF , Colorless, Clear,50 mg/ml	pass	Pass



John Su
QA & QC Manager