

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-07-26 10:26:07
 Date of Next Testing: 2027-07-16 10:26:07
 Product Name: **X-GlcA**
 CAS Number: 114162-64-0
 Specifications & Purity: $\geq 99\%$
 Lot #: G2521107
 SKU #: **B104857**
 Version: **0**
 Analysis #: **548228**
 Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis(anhydrous)	43.6-48.5 (%)	45.10%
Purity(HPLC)	99-100 (%)	99.30000%
Nitrogen by Elemental Analysis (anhydrous)	4.8-5.9 (%)	5.00%
Specific Rotation $[\alpha]_{25}^D(c=1 \text{ in DMF})$	-92--85 (°)	-88.30°
Water by Karl Fischer	0-6 (%)	3.20%
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