

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-05-09 13:39:08

Date of Next Testing: 2024-04-28 13:39:08

Product Name: **X-GlcA CHA Salt**

CAS Number: 114162-64-0

Specifications & Purity: $\geq 99\%$

Lot #: I1818066

SKU #: **B104857**

Version: **0**

Analysis #: **089545**

Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis(anhydrous)	43.6-48.5 (%)	44.20000 %
Purity(HPLC)	99-100 (%)	99.20000 %
Nitrogen by Elemental Analysis (anhydrous)	4.8-5.9 (%)	5.20000 %
Specific Rotation $[\alpha]_{25/D}(c=1 \text{ in DMF})$	-92--85 (°)	-89.00000 °
Water by Karl Fischer	0-6 (%)	3.00000 %
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