

Certificate of Analysis

Date of Testing: 2023-09-05 15:31:39
Date of Next Testing: 2025-08-25 15:31:39
Product Name: **X-GlcA**
CAS Number: 114162-64-0
Specifications & Purity: $\geq 99\%$
Lot #: K2116111
SKU #: **B104857**
Version: **0**
Analysis #: **260217**
Storage Temperature: Store at -20°C , Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis(anhydrous)	43.6-48.5 (%)	44.69%
Nitrogen by Elemental Analysis (anhydrous)	4.8-5.9 (%)	5.20%
Specific Rotation $[\alpha]_{25}^D(c=1 \text{ in DMF})$	-92--85 ($^{\circ}$)	-91.00 $^{\circ}$
Water by Karl Fischer	0-6 (%)	3.02%
Purity(HPLC)	99-100 (%)	99.02000%
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