

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-02-09 19:02:12

Date of Next Testing: 2028-01-30 19:02:12

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

CAS Number: 114162-64-0

Specifications & Purity:  $\geq 99\%$

Lot #: B2603229

SKU #: **B104857**

Version: **0**

Analysis #: **647269**

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

| Parameter                                               | Limit Values          | Result                |
|---------------------------------------------------------|-----------------------|-----------------------|
| Carbon by Elemental Analysis(anhydrous)                 | 43.6-48.5 (%)         | 46.52800 %            |
| Purity(HPLC)                                            | 99-100 (%)            | 100.00000 %           |
| Nitrogen by Elemental Analysis (anhydrous)              | 4.8-5.9 (%)           | 5.37200 %             |
| Specific Rotation $[\alpha]_{25/D}(c=1 \text{ in DMF})$ | -92--85 (°)           | -91.54200 °           |
| Water by Karl Fischer                                   | 0-6 (%)               | 4.02120 %             |
| Appearance (B104857)                                    | white powder          | White powder          |
| Proton NMR spectrum                                     | Conforms to Structure | Conforms to Structure |
| Solubility in DMF , Colorless, Clear, 50 mg/ml          | pass                  | Pass                  |
| beta-Glucuronidase detection test                       | to pass test          | to pass test          |



John Su  
QA & QC Manager