

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

|                          |   |
|--------------------------|---|
| Date of Testing:         | 2024-12-12 11:35:36   |
| Date of Next Testing:    | 2028-12-11 11:35:36   |
| Product Name:            | <b>4-Nitrophenyl 2-acetamido-2-deoxy-<math>\beta</math>-D-glucopyranoside</b> |
| CAS Number:              | 3459-18-5   |
| Specifications & Purity: | $\geq$ 98%  |
| Lot #:                   | L2406470  |
| SKU #                    | <b>N107918</b>  |
| Version                  | <b>1</b>  |
| Analysis #:              | <b>436489</b>   |
| Storage Temperature:     | Store at -20°C  |

| Parameter  | Limit Values   | Result   |
|--|--|--|
| Carbon by Elemental Analysis   | 47.6-49.6 (%)  | 48.94 %  |
| Nitrogen by Elemental Analysis   | 7.5-8.7 (%)  | 8.08 %   |
| Water by Karl Fischer  | 0-2 (%)  | 0.16 %   |
| Purity(TLC)  | 98-100 (%)   | 99.32 %  |
| Free P-Nitrophenol   | 0-0.05 (%)   | 0.00 %   |
| Specific Rotation $[\alpha]_{20/D}(c=0.25 \text{ in H}_2\text{O})$         | -17--12 (°)  | -16.94°  |
| Appearance (N107918)   | White to light yellow or off-white powder to crystal | White to light yellow or off-white powder to crystal |
| Solubility in H <sub>2</sub> O , Colorless to Faint Yellow, Clear, 5 mg/mL | pass   | Pass   |
| Proton NMR spectrum  | Conforms to structure                                | Conforms to Structure                                |



John Su  
QA & QC Manager