

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-03 13:37:32  
 Date of Next Testing: 2029-07-02 13:37:32  
 Product Name: **4-Nitrophenyl 2-acetamido-2-deoxy- $\beta$ -D-glucopyranoside**  
 CAS Number: 3459-18-5  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: F2530213  
 SKU #: **N107918**  
 Version: **1**  
 Analysis #: **521534**  
 Storage Temperature: Store at  $-20^{\circ}\text{C}$

| Parameter                                                                  | Limit Values                                         | Result                                               |
|----------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Carbon by Elemental Analysis                                               | 47.6-49.6 (%)                                        | 48.38 %                                              |
| Nitrogen by Elemental Analysis                                             | 7.5-8.7 (%)                                          | 8.01 %                                               |
| Free P-Nitrophenol                                                         | 0-0.05 (%)                                           | 0.00 %                                               |
| Water by Karl Fischer                                                      | 0-2 (%)                                              | 0.11 %                                               |
| Specific Rotation $[\alpha]_{20/D}(c=0.25 \text{ in H}_2\text{O})$         | -17--12 ( $^{\circ}$ )                               | -16.52 $^{\circ}$                                    |
| Purity(TLC)                                                                | 98-100 (%)                                           | 100.00 %                                             |
| 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