

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-03-14 08:51:43  
 Date of Next Testing: 2026-03-13 08:51:43  
 Product Name: **4-Nitrophenyl 2-acetamido-2-deoxy- $\beta$ -D-glucopyranoside**  
 CAS Number: 3459-18-5  
 Specifications & Purity: 98%  
 Lot #: C2209024  
 SKU #: **N107918**  
**Analysis: 063952**  
 Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Carbon by Elemental Analysis	47.6-49.6 (%)	48.78 %
Nitrogen by Elemental Analysis	7.5-8.7 (%)	8.00 %
Free P-Nitrophenol	0-0.05 (%)	0.03 %
Specific Rotation $[\alpha]_{20/D}(c=0.25 \text{ in H}_2\text{O})$	-17--12 (°)	-15.31 °
Purity(TLC)	98-100 (%)	99.76 %
Water by Karl Fischer	0-2 (%)	1.33 %
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