

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-12-05 15:40:45

Date of Next Testing: 2027-12-04 15:40:45

Product Name: **N ω -(2-Acetamido-3,4,6-tri-O-benzyl-2-deoxy- β -D-glucopyranosyl)-N α -(tert-butoxycarbonyl)-L-asparagine Benzyl Ester**

CAS Number: 219968-28-2

Specifications & Purity: $\geq 97\%$ (HPLC)

Lot #: K2328241

SKU #: N159865

Version: 1

Analysis #: 295528

Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(HPLC area)	97-100 (%)	97.50000 %
Nitrogen by Elemental Analysis	5.0-5.5 (%)	5.17000 %
Specific Rotation [α] _{20/D} (c=1 in CHCL ₃)	47-53 (°)	48.90000 °
Appearance(N159865)	White to Almost white powder to crystal	White to Almost white powder to crystal
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager