

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-10-30 17:18:23
 Date of Next Testing: 2027-10-29 17:18:23
 Product Name: **4-Nitrophenyl N-acetyl- β -D-galactosaminide**
 CAS Number: 14948-96-0
 Specifications & Purity: $\geq 98\%$
 Lot #: J2327690
 SKU #: **N111844**
 Version: **1**
 Analysis #: **284877**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
free 4-nitrophenol	0-0.05 (%)	0.03000 %
Water by Karl Fischer	0-5 (%)	2.10400 %
Purity(HPLC)	98-100 (%)	99.77500 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in DMSO})$	10-13 ($^{\circ}$)	10.01400 $^{\circ}$
Appearance (N111844)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in DMF , Transparent yellow-green solution , 50 mg/mL	pass	Pass
LC-MS for identification	Conforms	Conforms



John Su
QA & QC Manager