

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-10-11 17:32:39
 Date of Next Testing: 2028-10-10 17:32:39
 Product Name: **4-O- β -Galactopyranosyl-D-mannopyranose**
 CAS Number: 20869-27-6
 Specifications & Purity: $\geq 98\%$
 Lot #: J2409849
 SKU #: **G120948**
 Version: **1**
 Analysis #: **413868**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	100.00000 %
Water by Karl Fischer	0-5 (%)	4.45970 %
Carbon by Elemental Analysis(anhydrous)	41.6-42.6 (%)	41.60000 %
Specific Rotation $[\alpha]_{20/D}$ (9.00-11.00 mg/ml H ₂ O)	24-30 (°)	28.19100 °
Appearance (G120948)	White to Off-White Powder or Lyophilized Powder	White to Off-White Powder or Lyophilized Powder
D2O NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless,Clear to Slightly Hazy(49.00-51.00mg/ml)	pass	Pass



John Su
QA & QC Manager