

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-08-20 11:19:19  
 Date of Next Testing: 2026-08-19 11:19:19  
 Product Name: **4-O-β-Galactopyranosyl-D-mannopyranose**  
 CAS Number: 20869-27-6  
 Specifications & Purity: 98%  
 Lot #: H2217278  
 SKU #: **G120948**  
 Analysis: **096373**

Parameter	Limit Values	Result
Water by Karl Fischer	0-5 (%)	4.96 %
Purity(HPLC area)	98-100 (%)	99.08 %
Carbon by Elemental Analysis(anhydrous)	41.6-42.6 (%)	41.75 %
Specific Rotation [α] <sub>20</sub> /D(9.00-11.00 mg/ml H <sub>2</sub> O)	24-30 (°)	27.20°
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 <sub>2</sub> O , Colorless,Clear to Slightly Hazy(49.00-51.00mg/ml)	pass	Pass



John Su  
QA & QC Manager