

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-06-20 15:02:57

Date of Next Testing: 2028-06-19 15:02:57

Product Name: **α -Lactose monohydrate**

CAS Number: 5989-81-1

Specifications & Purity: for cell culture, $\geq 98\%$

Lot #: F2412063

SKU #: **L118583**

Version: **1**

Analysis #: **248819**

Storage Temperature: Store at 2-8°C, Protected from light

Parameter	Limit Values	Result
beta lactose	0-2 (%)	0.00000 %
Water by Karl Fischer	4-6 (%)	4.73410 %
Purity(HPLC)	98-100 (%)	98.44400 %
Glucose	0-0.05 (%)	0.04300 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O})$	50-54 (°)	53.94000°
Appearance (L118583)	White to Off-White Powder	White to Off-White Powder
Solubility, 100mg/ml in water	Clear and colorless	Clear and colorless
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager