

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-09-08 13:16:56

Date of Next Testing: 2027-09-07 13:16:56

Product Name:  **$\alpha$ -Lactose monohydrate**

CAS Number: 5989-81-1

Specifications & Purity: AR,  $\geq 98\%$ (HPLC)

Lot #: I2304389

SKU #: **L102286**

Version: **0**

Analysis #: **273489**

Storage Temperature: Protected from light, Room temperature, Cool

| Parameter                                                        | Limit Values                          | Result                                |
|------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Water by Karl Fischer                                            | 4-6 (%)                               | 4.49640 %                             |
| Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O})$ | 50-54 (°)                             | 53.92000 °                            |
| Purity(HPLC)                                                     | 98-100 (%)                            | 99.75300 %                            |
| Appearance (L102286)                                             | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Infrared spectrum                                                | Conforms to Structure                 | Conforms to Structure                 |
| Solubility in H <sub>2</sub> O , Colorless Clear 100 mg/ml       | pass                                  | Pass                                  |



John Su  
QA & QC Manager