

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-07-17 11:26:40

Date of Next Testing: 2028-07-06 11:26:40

Product Name: **D-Lactose monohydrate**

CAS Number: 64044-51-5

Specifications & Purity: ≥98%

Lot #: I2429019

SKU #: **L100101**

Version: **0**

Analysis #: **737860**

Storage Temperature: Room temperature, Argon charged

| Parameter                                                                                         | Limit Values          | Result                |
|---------------------------------------------------------------------------------------------------|-----------------------|-----------------------|
| Ignition Residue (as sulfate)                                                                     | 0-0.03 (%)            | 0.01980 %             |
| Iron(Fe)                                                                                          | 0-5 (ppm)             | 0.00000 ppm           |
| Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O})(\text{calcd. on anh. substance})$ | 54.4-59.9 (°)         | 55.78400 °            |
| Water by Karl Fischer                                                                             | 4-6 (%)               | 5.32000 %             |
| Purity(HPLC)                                                                                      | 98-100 (%)            | 99.10400 %            |
| Insoluble matter in H <sub>2</sub> O                                                              | 0-0.005 (%)           | 0.00000 %             |
| Heavy metal (as Pb)                                                                               | 0-5 (ppm)             | 0.00000 ppm           |
| Appearance (L100101)                                                                              | white powder          | White powder          |
| Dextrose                                                                                          | Pass                  | Pass                  |
| Infrared spectrum                                                                                 | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager