

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-19 09:27:52

Date of Next Testing: 2024-07-08 09:27:52

Product Name: **D-Lactose monohydrate**

CAS Number: 64044-51-5

Specifications & Purity: $\geq 98\%$

Lot #: G2214018

SKU #: **L100101**

Version: **0**

Analysis #: **115195**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Ignition Residue (as sulfate)	0-0.03 (%)	0.00420 %
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 ($^{\circ}$)	59.76000 $^{\circ}$
Water by Karl Fischer	4-6 (%)	5.90000 %
Purity(HPLC)	98-100 (%)	99.73200 %
Insoluble matter in H ₂ O	0-0.005 (%)	0.00000 %
Heavy metal (as Pb)	0-5 (ppm)	4.38000 ppm
Appearance (L100101)	white powder	White powder
Dextrose	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager