

Certificate of Analysis

Date of Testing: 2025-05-21 11:51:05

Date of Next Testing: 2027-05-11 11:51:05

Product Name: **D-Lactose monohydrate**

CAS Number: 64044-51-5

Specifications & Purity: $\geq 98\%$

Lot #: H2321127

SKU #: **L100101**

Version: **0**

Analysis #: **513034**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Ignition Residue (as sulfate)	0-0.03 (%)	0.02 %
Iron(Fe)	0-5 (ppm)	0.00 ppm
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O})(\text{calcd. on anh. substance})$	54.4-59.9 ($^{\circ}$)	55.70 $^{\circ}$
Water by Karl Fischer	4-6 (%)	5.30 %
Purity(HPLC)	98-100 (%)	99.10000 %
Insoluble matter in H ₂ O	0-0.005 (%)	0.00 %
Heavy metal (as Pb)	0-5 (ppm)	0.00 ppm
Appearance (L100101)	white powder	White powder
Dextrose	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager