

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-02-24 17:45:16
Date of Next Testing: 2025-02-23 17:45:16
Product Name: **1,4:3,6-Dianhydro-D-mannitol**
CAS Number: 641-74-7
Specifications & Purity: $\geq 97.0\%$ (GC)
Lot #: B2314693
SKU #: **I134524**
Analysis: **149336**

| Parameter | Limit Values | Result |
|---|---|---|
| Specific Rotation $[\alpha]_{20/D}(c=3 \text{ in H}_2\text{O})$ | 85-95 ($^{\circ}$) | 87.37 $^{\circ}$ |
| Purity(GC) | 97-100 (%) | 99.70 % |
| Melting point | 84-88 ($^{\circ}\text{C}$) | 87.99000 $^{\circ}\text{C}$ |
| Appearance (I134524) | white to yellow powder, crystals, and/or chunks | white to yellow powder, crystals, and/or chunks |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager