

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-10 19:24:44  
Date of Next Testing: 2026-03-09 19:24:44  
Product Name: **Mannide monooleate**  
CAS Number: 9049-98-3  
Specifications & Purity: Analytical Reagent  
Lot #: C23071038  
SKU #: **M304937**  
Version: **3**  
Analysis #: **157502**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.24 %
Color Test(Gardner Color Scale)	0-6	5.80000
Acid Value	≤10 (mgKOH/g)	9.80 mgKOH/g
Saponification value	164-172(mgKOH/g)	165.00 mgKOH/g
Hydroxyl value	89-100 (mgKOH/g)	99.90000 mgKOH/g



John Su  
QA & QC Manager