

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-04-08 11:17:21  
Date of Next Testing: 2026-03-29 11:17:21  
Product Name: **2,3-Butanedione**  
CAS Number: 431-03-8  
Specifications & Purity: analytical standard, ≥99%(GC)  
Lot #: D2401034  
SKU #: **B104603**  
Version: **0**  
Analysis #: **343038**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.32200 %
Appearance (B104603)	Faint Yellow to Very Dark Yellow Liquid	Faint Yellow to Very Dark Yellow Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager