

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-11-02 10:47:07

Date of Next Testing: 2027-11-02 10:47:07

Product Name: **2,3-Butanedione**

CAS Number: 431-03-8

Specifications & Purity:  $\geq 97\%$ 

Lot #: J2430411

SKU #: **B432715**Version: **3**Analysis #: **429453**

Storage Temperature: Store at 2-8°C

| Parameter                          | Limit Values                               | Result                                     |
|------------------------------------|--------------------------------------------|--------------------------------------------|
| Purity(GC)                         | 97-100 (%)                                 | 98.77100 %                                 |
| Refractive index n <sub>20/D</sub> | 1.393-1.397                                | 1.39430                                    |
| Appearance(B432715)                | Colorless to Yellow-Green to Yellow Liquid | Colorless to Yellow-Green to Yellow Liquid |
| NMR Spectrum 1H                    | Conforms to structure                      | Conforms to Structure                      |

John Su  
QA & QC Manager