

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-05-05 16:36:53  
 Date of Next Testing: 2030-05-04 16:36:53  
 Product Name: **1,4-Butanediol (BDO)**  
 CAS Number: 110-63-4  
 Specifications & Purity:  $\geq 99\%$   
 Lot #: D2623068  
 SKU #: **B110391**  
 Version: **1**  
 Analysis #: **699931**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                           | Limit Values                            | Result                                  |
|-------------------------------------|-----------------------------------------|-----------------------------------------|
| Density (20°C)                      | 1.016-1.019                             | 1.01600                                 |
| Purity(GC)                          | 99-100 (%)                              | 100.00000 %                             |
| Water by Karl Fischer               | 0-0.1 (%)                               | 0.04510 %                               |
| Refractive index n <sub>20</sub> /D | 1.444-1.448                             | 1.44600                                 |
| Appearance (B110391)                | White Solid to Colorless Viscous Liquid | White Solid to Colorless Viscous Liquid |
| Infrared spectrum                   | Conforms to Structure                   | Conforms to Structure                   |



John Su  
QA & QC Manager