

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-26 15:11:39  
Date of Next Testing: 2027-05-25 15:11:39  
Product Name: **n-Butanol**  
CAS Number: 71-36-3  
Specifications & Purity: Analytical Reagent,99%  
Lot #: E2317050  
SKU #: **B111571**  
**Analysis:** **228258**  
Storage Temperature: Desiccated

| Parameter  | Limit Values       | Result           |
|--|--------------------|------------------|
| Color test (APHA)  | 0-10 (APHA)        | 8.00 APHA        |
| Carbonly compounds   | 0-0.02 (%)         | 0.01 %           |
| Density (20°C)   | 0.808-0.811 (g/ml) | 0.81 g/ml        |
| Iron(Fe)   | 0-0.5 (ppm)        | 0.07 ppm         |
| Esters(As CH <sub>3</sub> COOC <sub>4</sub> H <sub>9</sub> ) | 0-0.1 (%)          | 0.05 %           |
| Evaporation Residue  | 0-0.001 (%)        | 0.00 %           |
| Assay  | 99-100 (%)         | 99.69 %          |
| Unsaturated compounds(Br)                                    | 0-0.005 (%)        | 0.00 %           |
| Water by Karl Fischer  | 0-0.2 (%)          | 0.04 %           |
| Acidity(as H <sup>+</sup> )                                  | 0-0.005 (μmol/g)   | 0.00 μmol/g      |
| Appearance (B111571)   | Colorless liquid   | Colorless liquid |
| Readily carbonizable substance                               | pass               | Pass             |



John Su  
QA & QC Manager