

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-04 18:14:40  
 Date of Next Testing: 2029-09-03 18:14:40  
 Product Name: **n-Butanol (NBA)**  
 CAS Number: 71-36-3  
 Specifications & Purity: Premium-Grade Reagents, ≥99%  
 Lot #: I2501102  
 SKU #: **B111571**  
 Version: **4**  
 Analysis #: **562696**  
 Storage Temperature: Room temperature, Desiccated

| Parameter                                                    | Limit Values           | Result                 |
|--------------------------------------------------------------|------------------------|------------------------|
| Color test (APHA)                                            | 0-10 (APHA)            | 0.00000 APHA           |
| Iron(Fe)                                                     | 0-0.5 (ppm)            | 0.00000 ppm            |
| Esters(As CH <sub>3</sub> COOC <sub>4</sub> H <sub>9</sub> ) | 0-0.1 (%)              | 0.00000 %              |
| Evaporation Residue                                          | 0-0.001 (%)            | 0.00000 %              |
| Water by Karl Fischer                                        | 0-0.2 (%)              | 0.05290 %              |
| Assay(GC)                                                    | 99-100 (%)             | 99.55900 %             |
| Carbonly compounds (As CO)                                   | 0-0.02 (%)             | 0.00000 %              |
| Acidity(as H <sup>+</sup> )                                  | 0-0.0005 (mmol/g)      | 0.00000 mmol/g         |
| Density (20°C)                                               | 0.808-0.811 (g/ml)     | 0.81100 g/ml           |
| Unsaturated compounds(Br)                                    | 0-0.005 (%)            | 0.00500 %              |
| Appearance (B111571)                                         | Colorless Clear Liquid | Colorless clear liquid |
| Readily carbonizable substance                               | pass                   | Pass                   |



John Su  
QA & QC Manager