

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-02 17:24:12  
 Date of Next Testing: 2029-07-01 17:24:12  
 Product Name: **Isopropyl Alcohol(IPA)**  
 CAS Number: 67-63-0  
 Specifications & Purity: for preparative chromatography, ≥99.8%  
 Lot #: G2501454  
 SKU #: **I112023**  
 Version: **0**  
 Analysis #: **536571**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                            | Limit Values          | Result                |
|------------------------------------------------------|-----------------------|-----------------------|
| Density (20°C)                                       | 0.785-0.789           | 0.78503               |
| total of impurities apart from 2-butanol             | 0-0.3 (%)             | 0.01300 %             |
| Alkalinity                                           | 0-0.0002 (mg/g)       | 0.00000 mg/g          |
| Isopropylether (GC)                                  | 0-0.01 (%)            | 0.00000 %             |
| Water by Karl Fischer                                | 0-0.05 (%)            | 0.00420 %             |
| Total combined yeasts/moulds count (TYMC)            | 0-10 (cfu/g)          | 6.00000 cfu/g         |
| Acidity                                              | 0-0.0002              | 0.00000               |
| Absorbance at 270 nm                                 | 0-0.03                | 0.01500               |
| Absorbance at 250 nm                                 | 0-0.1                 | 0.02300               |
| Density (25°C)                                       | 0.783-0.787           | 0.78301               |
| Absorbance at 290 nm                                 | 0-0.02                | 0.01100               |
| Refractive index n <sub>20</sub> /D                  | 1.376-1.378           | 1.37750               |
| Bacterial endotoxins                                 | 0-2.5 (IU/ml OR u/ml) | 1.00000 IU/ml OR u/ml |
| Absorbance (at 230 nm)                               | 0-0.3                 | 0.07400               |
| Absorbance at 310 nm                                 | 0-0.01                | 0.00610               |
| Total aerobic microbial count (TAMC)                 | 0-100 (cfu/g)         | 60.00000 cfu/g        |
| Evaporation Residue                                  | 0-0.0001 (mg/L)       | 0.00000 mg/L          |
| Benzene and related substances (GC)                  | 0-2 (ppm)             | 0.00000 ppm           |
| Purity(GC)                                           | 99.8-100 (%)          | 99.99500 %            |
| Appearance (I112023)                                 | Colorless Liquid      | Colorless liquid      |
| Bile-tolerant gram-negative bacteria (absent in 1 g) | passes test           | Passes test           |
| Candida albicans (absent in 1 g)                     | passes test           | Passes test           |
| Escherichia coli (absent in 1 g)                     | passes test           | Passes test           |
| Infrared spectrum                                    | Conforms to Structure | Conforms to Structure |
| Peroxides                                            | Conforms              | Conforms              |

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**Parameter**

Pseudomonas aeruginosa (absent in 1 g)

Salmonella (absent in 10 g)

Staphylococcus aureus (absent in 1 g)

The absorption curve is smooth

**Limit Values**

passes test

passes test

passes test

Conforms

**Result**

Passes test

Passes test

Passes test

Conforms

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager