

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-06-17 18:36:38

Date of Next Testing: 2029-06-16 18:36:38

Product Name: **Aluminum Etchant**

CAS Number:

Specifications & Purity: electronic grade

Lot #: F2615224

SKU #: **A1511715**

Version **1**

**Analysis #:** **729064**

Storage Temperature: Room temperature,Cool

| Parameter                                   | Limit Values       | Result          |
|---------------------------------------------|--------------------|-----------------|
| Acidity(as H+)                              | 15.8-16.2 (mmol/g) | 16.02000 mmol/g |
| Density (20°C)                              | 1.56-1.58 (g/ml)   | 1.57100 g/ml    |
| Chloride (Cl-)                              | 0-500 (ppb)        | 100.00000 ppb   |
| Sulfate(SO4)                                | 0-20000 (ppb)      | 350.00000 ppb   |
| Particle( $\geq 0.5\mu\text{m}$ ,count/1ml) | 0-100              | 3.10000         |
| Particle( $\geq 1.0\mu\text{m}$ ,count/1ml) | 0-10               | 1.60000         |
| Sodium(Na)                                  | 0-5000 (ppb)       | 46.84800 ppb    |
| Magnesium(Mg)                               | 0-1000 (ppb)       | 6.53200 ppb     |
| Aluminium(Al)                               | 0-500 (ppb)        | 6.43000 ppb     |
| Potassium(K)                                | 0-1000 (ppb)       | 7.18900 ppb     |
| Calcium(Ca)                                 | 0-5000 (ppb)       | 49.00800 ppb    |
| Manganese(Mn)                               | 0-500 (ppb)        | 3.69600 ppb     |
| Iron(Fe)                                    | 0-2000 (ppb)       | 174.11200 ppb   |
| Nickel(Ni)                                  | 0-500 (ppb)        | 24.64900 ppb    |
| Copper(Cu)                                  | 0-1000 (ppb)       | 3.03000 ppb     |
| Arsenic(As)                                 | 0-200 (ppb)        | 5.33300 ppb     |
| Lead(Pb)                                    | 0-500 (ppb)        | 6.29200 ppb     |



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

John Su  
QA & QC Manager