

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-03-31 15:15:18  
 Date of Next Testing: 2030-03-30 15:15:18  
 Product Name: **Poly(vinyl alcohol) (PVA)**  
 CAS Number: 9002-89-5  
 Specifications & Purity: Ultra pure, degree of hydrolysis: 78.5-81.5 mol%, Viscosity: 2.8-3.3 mPa.s  
 Lot #: C2630462  
 SKU #: **P139542**  
 Version: **2**  
 Analysis #: **680215**  
 Storage Temperature: Room temperature

| Parameter                               | Limit Values      | Result         |
|-----------------------------------------|-------------------|----------------|
| Ash                                     | 0-0.4 (%)         | 0.36000 %      |
| Volatile matter                         | 0-5 (%)           | 2.30000 %      |
| pH                                      | 5-7               | 5.30000        |
| Sodium(Na)                              | 0-5000 (ppm)      | 1825.00000 ppm |
| Magnesium(Mg)                           | 0-1 (ppm)         | 0.00000 ppm    |
| Aluminum(Al)                            | 0-1 (ppm)         | 0.00000 ppm    |
| Potassium(K)                            | 0-1 (ppm)         | 0.00000 ppm    |
| Calcium(Ca)                             | 0-1 (ppm)         | 0.00000 ppm    |
| Chromium(Cr)                            | 0-1 (ppm)         | 0.04600 ppm    |
| Manganese(Mn)                           | 0-1 (ppm)         | 0.05500 ppm    |
| Iron(Fe)                                | 0-1 (ppm)         | 0.00000 ppm    |
| Cobalt(Co)                              | 0-1 (ppm)         | 0.00650 ppm    |
| Nickel(Ni)                              | 0-1 (ppm)         | 0.14950 ppm    |
| Copper(Cu)                              | 0-1 (ppm)         | 0.20250 ppm    |
| Titanium(Ti)                            | 0-1 (ppm)         | 0.30780 ppm    |
| Zinc(Zn)                                | 0-1 (ppm)         | 0.00000 ppm    |
| Zirconium(Zr)                           | 0-1 (ppm)         | 0.00000 ppm    |
| Stannum(Sn)                             | 0-1 (ppm)         | 0.00300 ppm    |
| Lead(Pb)                                | 0-1 (ppm)         | 0.00000 ppm    |
| Silver(Ag)                              | 0-1 (ppm)         | 0.00000 ppm    |
| Cadmium(Cd)                             | 0-1 (ppm)         | 0.00000 ppm    |
| Lithium(Li)                             | 0-1 (ppm)         | 0.00000 ppm    |
| Boron(B)                                | 0-1 (ppm)         | 0.00000 ppm    |
| Viscosity(4% in H <sub>2</sub> O, 20°C) | 2.8-3.3 (mPa·S)   | 3.00000 mPa·S  |
| Degree of hydrolysis                    | 78.5-81.5 (Mole%) | 81.50000 Mole% |

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**Parameter**

**Limit Values**

**Result**

Sulfur(S)

0-50 (ppm)

0.00000 ppm

A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager