

ALADDIN SCIENTIFIC CORPORATION
 14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-03-17 08:55:15
 Date of Next Testing: 2029-03-16 08:55:15
 Product Name: **Poly(ethylene glycol) (PEG)**
 CAS Number: 25322-68-3
 Specifications & Purity: UltraBio™, Ultra pure, 200
 Lot #: C2612753
 SKU #: **P615490**
 Version: **1**
 Analysis #: **665216**
 Storage Temperature: Room temperature

| Parameter | Limit Values | Result |
|---------------------------|-------------------|-------------------|
| Density(D20/4°C) | 1.123-1.125 | 1.12500 |
| Refractive index n20/D | 1.459-1.461 | 1.46000 |
| Water by Karl Fischer | 0-1 (%) | 0.20000 % |
| Residue on Ignition | 0-0.2 (%) | 0.00000 % |
| Viscosity(25 °C,neat) | 58-85 (mPa·S) | 82.00000 mPa·S |
| Hydroxyl value | 534-591 (mgKOH/g) | 584.00000 mgKOH/g |
| traces peroxide (as H2O2) | 0-200 (ppm) | 50.00000 ppm |
| Aluminium(Al) | 0-5 (ppm) | 2.50000 ppm |
| Barium(Ba) | 0-5 (ppm) | 1.30000 ppm |
| Bismuth(Bi) | 0-5 (ppm) | 0.95000 ppm |
| Calcium(Ca) | 0-10 (ppm) | 2.20000 ppm |
| Cadmium(Cd) | 0-5 (ppm) | 2.10000 ppm |
| Cobalt(Co) | 0-5 (ppm) | 1.45200 ppm |
| Chromium(Cr) | 0-5 (ppm) | 0.95000 ppm |
| Copper(Cu) | 0-5 (ppm) | 2.14000 ppm |
| Iron(Fe) | 0-5 (ppm) | 0.74000 ppm |
| Potassium(K) | 0-500 (ppm) | 3.74400 ppm |
| Lithium(Li) | 0-5 (ppm) | 1.52000 ppm |
| Magnesium(Mg) | 0-5 (ppm) | 1.51000 ppm |
| Manganese(Mn) | 0-5 (ppm) | 1.69500 ppm |
| Molybdenum(Mo) | 0-5 (ppm) | 1.51100 ppm |
| Sodium(Na) | 0-200 (ppm) | 10.95200 ppm |
| Nickel(Ni) | 0-5 (ppm) | 1.84000 ppm |
| Lead(Pb) | 0-5 (ppm) | 1.74000 ppm |
| Strontium(Sr) | 0-5 (ppm) | 0.95200 ppm |

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|---|------------------------------------|------------------------------------|
| Zinc(Zn) | 0-5 (ppm) | 0.52000 ppm |
| Arsenic traces(MHS-AAS) | 0-0.1 (ppm) | 0.05000 ppm |
| Total Sulfur as SO ₄ (SO ₄) | 0-50 (ppm) | 15.04000 ppm |
| Chloride (Cl ⁻) | 0-50 (ppm) | 2.15000 ppm |
| pH(1.5g in 30ml H ₂ O) | 5.5-7 | 7.00000 |
| Uv-Abs. At 260 nm | 0-0.06 | 0.00000 |
| UV-ABS.at 280 nm | 0-0.03 | 0.00000 |
| Appearance(P615490) | Colorless Liquid or Viscous Liquid | Colorless liquid or viscous liquid |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| SOLUBILITY (1.5g in 30 ml H ₂ O,clear colorless) | Pass | Pass |
| Residue (filter test) | no residue | no residue |

John Su
QA & QC Manager