

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-01-07 18:53:56

Date of Next Testing: 2030-01-06 18:53:56

Product Name: **Polyethylene glyco (PEG)**

CAS Number: 25322-68-3

Specifications & Purity: UltraBio™, average Mn 10000

Lot #: A2605636

SKU #: **P598941**

Version: **1**

Analysis #: **631592**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
Average Mn	8500-11500	10891.00
Melting point	62-65 (°C)	64.00000 °C
Water by Karl Fischer	0-1 (%)	0.10 %
Sulphated ash	0-0.2 (%)	0.00000 %
Viscosity(50% in H2O , 20°C)	550-750 (mPa·S)	611.00000 mPa·S
Hydroxyl value	9.8-13.2(mgKOH/g)	11.00000 mgKOH/g
Peroxide(as H2O2)	0-10 (ppm)	0.53 ppm
Aluminum(Al)	0-5 (ppm)	0.23 ppm
Barium(Ba)	0-5 (ppm)	0.01 ppm
Bismuth(Bi)	0-5 (ppm)	0.04 ppm
Calcium(Ca)	0-10 (ppm)	1.53 ppm
Cadmium(Cd)	0-5 (ppm)	0.03 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.03 ppm
Iron(Fe)	0-5 (ppm)	0.05 ppm
Potassium(K)	0-200 (ppm)	1.51 ppm
Lithium(Li)	0-5 (ppm)	0.41 ppm
Magnesium(Mg)	0-5 (ppm)	0.13 ppm
Manganese(Mn)	0-5 (ppm)	0.15 ppm
Molybdenum(Mo)	0-5 (ppm)	0.55 ppm
Sodium(Na)	0-200 (ppm)	1.54 ppm
Nickel(Ni)	0-5 (ppm)	0.12 ppm
Lead(Pb)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.01 ppm

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Parameter	Limit Values	Result
Zinc(Zn)	0-5 (ppm)	0.02 ppm
Arsenic(As)	0-0.1 (ppm)	0.01000 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	11.58 ppm
Chloride (Cl ⁻)	0-50 (ppm)	5.36 ppm
PH(25 °C, 50 mg/mL in Water)	5.5-7.0	6.00
UV - ABS. AT 260 NM(50 mg/mL in H ₂ O)	0-0.09	0.02000
UV - ABS. AT 280 NM(50 mg/mL in H ₂ O)	0-0.03	0.01000
Appearance(P598941)	Colorless or White Powder or Crystals or Flakes	Colorless or White Powder or Crystals or Flakes
Infrared spectrum	Conforms to Structure	Conforms to Structure
Residue (filter test)	no residue	no residue
Solubility in H ₂ O,colorless and clear(50 mg/mL at 25 °C)	Pass	Pass

John Su
QA & QC Manager