

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-03-17 11:16:50
 Date of Next Testing: 2029-03-16 11:16:50
 Product Name: **Poly(ethylene glycol) (PEG)**
 CAS Number: 25322-68-3
 Specifications & Purity: UltraBio™, Ultra pure, 200
 Lot #: C2612754
 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