

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

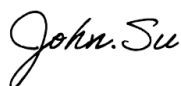
Date of Testing: 2026-03-12 10:57:03
 Date of Next Testing: 2029-03-11 10:57:03
 Product Name: **Poly(ethylene glycol) (PEG)**
 CAS Number: 25322-68-3
 Specifications & Purity: UltraBio™, Ultra pure, 400
 Lot #: C2604779
 SKU #: **P615470**
 Version: **2**
 Analysis #: **659468**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Density(D20/4°C)	1.125-1.127	1.12600
Refractive index n20/D	1.466-1.468	1.46700
Water by Karl Fischer	0-1 (%)	0.10000 %
Sulfated Ash	0-0.2 (%)	0.10000 %
Viscosity(neat/20 °C)	105-152 (mPa·S)	121.00000 mPa·S
Hydroxyl value	267-295 (mgKOH/g)	273.00000 mgKOH/g
Trace peroxide(As H2O2)	0-200 (ppm)	0.32500 ppm
Aluminum(Al)	0-5 (ppm)	0.10200 ppm
Bismuth(Bi)	0-5 (ppm)	0.02350 ppm
Calcium(Ca)	0-10 (ppm)	0.52600 ppm
Cadmium(Cd)	0-5 (ppm)	0.02360 ppm
Cobalt(Co)	0-5 (ppm)	0.02140 ppm
Chromium(Cr)	0-5 (ppm)	0.00100 ppm
Copper(Cu)	0-5 (ppm)	0.23500 ppm
Iron(Fe)	0-5 (ppm)	0.10600 ppm
Potassium(K)	0-200 (ppm)	1.52600 ppm
Lithium(Li)	0-5 (ppm)	0.02350 ppm
Magnesium(Mg)	0-5 (ppm)	0.02310 ppm
Manganese(Mn)	0-5 (ppm)	0.15200 ppm
Molybdenum(Mo)	0-5 (ppm)	0.01320 ppm
Sodium(Na)	0-300 (ppm)	1.52600 ppm
Nickel(Ni)	0-5 (ppm)	0.03250 ppm
Lead(Pb)	0-5 (ppm)	0.12500 ppm
Strontium(Sr)	0-5 (ppm)	0.02350 ppm
Zinc(Zn)	0-5 (ppm)	0.32100 ppm

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
Arsenic Traces	0-0.1 (ppm)	0.00100 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	1.32500 ppm
Chloride (Cl ⁻)	0-50 (ppm)	0.32500 ppm
PH(50 mg/mL in H ₂ O)	5.5-7	5.80000
UV - ABS. AT 260 NM(50 mg/mL in H ₂ O)	0-0.06	0.01000
UV - ABS. AT 280 NM(50 mg/mL in H ₂ O)	0-0.03	0.01000
Barium(Ba)	0-5 (ppm)	0.10500 ppm
Appearance(P615470)	Colorless Viscous Liquid or Semi-Solid or Paste or Solid	Colorless Viscous Liquid or Semi-Solid or Paste or Solid
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)	Pass	Pass



John Su
QA & QC Manager