

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-19 11:25:04  
Date of Next Testing: 2028-07-18 11:25:04  
Product Name: **Poly(ethylene glycol) (PEG)**  
CAS Number: 25322-68-3  
Specifications & Purity: UltraBio™, Ultra pure, 35000  
Lot #: G2511502  
SKU #: **P432425**  
Version: **1**  
Analysis #: **487386**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Melting point	64-66 (°C)	66.00000 °C
Water by Karl Fischer	0-1 (%)	0.10000 %
Sulfated Ash	0-0.2 (%)	0.00000 %
Viscosity(50% in H <sub>2</sub> O , 20°C)	11000-14000 (mPa·S)	12100.00000 mPa·S
Molecular mass(calculated from hydroxyl value)	25000-45000	32063.00000
Hydroxyl value	2.5-4.5 (mgKOH/g)	3.50000 mgKOH/g
traces peroxide (as H <sub>2</sub> O <sub>2</sub> )	0-50 (ppm)	1.52600 ppm
Aluminium(Al)	0-5 (ppm)	0.23500 ppm
Barium(Ba)	0-5 (ppm)	0.14200 ppm
Bismuth(Bi)	0-5 (ppm)	0.21500 ppm
Calcium(Ca)	0-10 (ppm)	1.52600 ppm
Cadmium(Cd)	0-5 (ppm)	0.20700 ppm
Cobalt(Co)	0-5 (ppm)	0.14500 ppm
Chromium(Cr)	0-5 (ppm)	0.34100 ppm
Copper(Cu)	0-5 (ppm)	0.24100 ppm
Iron(Fe)	0-5 (ppm)	0.02400 ppm
Potassium(K)	0-200 (ppm)	1.42500 ppm
Lithium(Li)	0-5 (ppm)	0.23400 ppm
Magnesium(Mg)	0-5 (ppm)	0.04000 ppm
Manganese(Mn)	0-5 (ppm)	0.16300 ppm
Molybdenum(Mo)	0-5 (ppm)	0.41800 ppm
Sodium(Na)	0-200 (ppm)	1.42500 ppm
Nickel(Ni)	0-5 (ppm)	0.23400 ppm
Lead(Pb)	0-5 (ppm)	0.31400 ppm

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Parameter	Limit Values	Result
Strontium(Sr)	0-5 (ppm)	0.50200 ppm
Zinc(Zn)	0-5 (ppm)	0.04100 ppm
Arsenic traces(MHS-AAS)	0-0.1 (ppm)	0.03200 ppm
Total sulfur as SO4 (ICP)	0-50 (ppm)	1.11500 ppm
Chloride (Cl-)	0-50 (ppm)	1.14000 ppm
pH(1.5g in 30ml H2O)	5.5-7	6.10000
UV-ABS.at 260 nm	0-0.12	0.04000
UV-ABS.at 280 nm	0-0.12	0.10000
Appearance(P432425)	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

John Su  
QA & QC Manager