

Shanghai Aladdin Biochemical Technology Co., LTD
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

Certificate of Analysis

Date of Testing: 2026-07-15 14:56:58
Date of Next Testing: 2029-07-14 14:56:58
Product Name: **Poly(ethylene glycol) (PEG)**
CAS Number: 25322-68-3
Specifications & Purity: UltraBio™, Ultra pure, 35000
Lot #: I2319560
SKU #: **P432425**
Version: **1**
Analysis #: **737609**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Melting point	64-66 (°C)	64.99800 °C
Water by Karl Fischer	0-1 (%)	0.10000 %
Sulfated Ash	0-0.2 (%)	0.08900 %
Viscosity(50% in H ₂ O , 20°C)	11000-14000 (mPa·S)	12200.00000 mPa·S
Molecular mass(calculated from hydroxyl value)	25000-45000	32062.00000
Hydroxyl value	2.5-4.5 (mgKOH/g)	3.49800 mgKOH/g
traces peroxide (as H ₂ O ₂)	0-50 (ppm)	32.98000 ppm
Aluminium(Al)	0-5 (ppm)	2.10800 ppm
Barium(Ba)	0-5 (ppm)	1.02280 ppm
Bismuth(Bi)	0-5 (ppm)	2.29900 ppm
Calcium(Ca)	0-10 (ppm)	5.98000 ppm
Cadmium(Cd)	0-5 (ppm)	1.21800 ppm
Cobalt(Co)	0-5 (ppm)	0.26500 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	2.59900 ppm
Potassium(K)	0-200 (ppm)	99.99800 ppm
Lithium(Li)	0-5 (ppm)	3.09800 ppm
Magnesium(Mg)	0-5 (ppm)	0.20000 ppm
Manganese(Mn)	0-5 (ppm)	0.10000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.10000 ppm
Sodium(Na)	0-200 (ppm)	198.98000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Lead(Pb)	0-5 (ppm)	2.01000 ppm

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Parameter	Limit Values	Result
Strontium(Sr)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Arsenic traces(MHS-AAS)	0-0.1 (ppm)	0.02000 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	28.98000 ppm
Chloride (Cl ⁻)	0-50 (ppm)	20.29900 ppm
pH(1.5g in 30ml H ₂ O)	5.5-7	5.78000
UV-ABS.at 260 nm	0-0.12	0.07800
UV-ABS.at 280 nm	0-0.12	0.10800
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

