

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

Certificate of Analysis

Date of Testing: 2026-09-07 17:16:00
Date of Next Testing: 2029-09-06 17:16:00
Product Name: **Poly(ethylene glycol) (PEG)**
CAS Number: 25322-68-3
Specifications & Purity: UltraBio™, Ultra pure, 35000
Lot #: I2601041
SKU #: **P432425**
Version: **1**
Analysis #: **679029**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Melting point	64-66 (°C)	65.00000 °C
Water by Karl Fischer	0-1 (%)	1.00000 %
Sulfated Ash	0-0.2 (%)	0.00000 %
Viscosity(50% in H ₂ O , 20°C)	11000-14000 (mPa·S)	13182.00000 mPa·S
Molecular mass(calculated from hydroxyl value)	25000-45000	29532.00000
Hydroxyl value	2.5-4.5 (mgKOH/g)	3.80000 mgKOH/g
traces peroxide (as H ₂ O ₂)	0-50 (ppm)	1.52600 ppm
Aluminium(Al)	0-5 (ppm)	0.01000 ppm
Barium(Ba)	0-5 (ppm)	0.01000 ppm
Bismuth(Bi)	0-5 (ppm)	0.01000 ppm
Calcium(Ca)	0-10 (ppm)	1.32500 ppm
Cadmium(Cd)	0-5 (ppm)	0.01000 ppm
Cobalt(Co)	0-5 (ppm)	0.01000 ppm
Chromium(Cr)	0-5 (ppm)	0.01000 ppm
Copper(Cu)	0-5 (ppm)	0.01000 ppm
Iron(Fe)	0-5 (ppm)	0.01000 ppm
Potassium(K)	0-200 (ppm)	3.52600 ppm
Lithium(Li)	0-5 (ppm)	0.01000 ppm
Magnesium(Mg)	0-5 (ppm)	0.01000 ppm
Manganese(Mn)	0-5 (ppm)	0.01000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.01000 ppm
Sodium(Na)	0-200 (ppm)	3.83600 ppm
Nickel(Ni)	0-5 (ppm)	0.01000 ppm
Lead(Pb)	0-5 (ppm)	0.01000 ppm

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Parameter	Limit Values	Result
Strontium(Sr)	0-5 (ppm)	0.01000 ppm
Zinc(Zn)	0-5 (ppm)	0.01000 ppm
Arsenic traces(MHS-AAS)	0-0.1 (ppm)	0.00100 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	2.56300 ppm
Chloride (Cl ⁻)	0-50 (ppm)	1.63800 ppm
pH(1.5g in 30ml H ₂ O)	5.5-7	6.10000
UV-ABS.at 260 nm	0-0.12	0.05000
UV-ABS.at 280 nm	0-0.12	0.09000
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

