

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

Certificate of Analysis

Date of Testing: 2024-11-19 16:19:23
Date of Next Testing: 2027-11-19 16:19:23
Product Name: **Poly(ethylene glycol)**
CAS Number: 25322-68-3
Specifications & Purity: UltraBio™, Ultra pure, BioReagent, 35000
Lot #: K2418398
SKU #: **P432425**
Version: **1**
Analysis #: **434013**

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 ₂ 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 ₂ O ₂)	0-50 (ppm)	25.10000 ppm
Aluminium(Al)	0-5 (ppm)	1.32000 ppm
Barium(Ba)	0-5 (ppm)	1.33000 ppm
Bismuth(Bi)	0-5 (ppm)	0.23000 ppm
Calcium(Ca)	0-10 (ppm)	5.30000 ppm
Cadmium(Cd)	0-5 (ppm)	1.40000 ppm
Cobalt(Co)	0-5 (ppm)	1.03000 ppm
Chromium(Cr)	0-5 (ppm)	0.12000 ppm
Copper(Cu)	0-5 (ppm)	0.65000 ppm
Iron(Fe)	0-5 (ppm)	3.44200 ppm
Potassium(K)	0-200 (ppm)	1.02540 ppm
Lithium(Li)	0-5 (ppm)	1.52000 ppm
Magnesium(Mg)	0-5 (ppm)	2.16000 ppm
Manganese(Mn)	0-5 (ppm)	0.62000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.42100 ppm
Sodium(Na)	0-200 (ppm)	1.63600 ppm
Nickel(Ni)	0-5 (ppm)	1.20130 ppm
Lead(Pb)	0-5 (ppm)	0.69500 ppm
Strontium(Sr)	0-5 (ppm)	1.33200 ppm

Phone: +86 400 620 6333 Email: Sale@aladdin-e.com Web: <https://www.aladdin-e.com>

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Parameter	Limit Values	Result
Zinc(Zn)	0-5 (ppm)	0.00145 ppm
Arsenic traces(MHS-AAS)	0-0.1 (ppm)	0.00300 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	1.06000 ppm
Chloride (Cl ⁻)	0-50 (ppm)	1.00340 ppm
pH(1.5g in 30ml H ₂ O)	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