

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

Certificate of Analysis

Date of Testing: 2024-04-16 15:32:56
Date of Next Testing: 2027-04-16 15:32:56
Product Name: **Poly(ethylene glycol)**
CAS Number: 25322-68-3
Specifications & Purity: Ultrapure BioReagent, 35,000
Lot #: D2410350
SKU #: **P432425**
Version: **1**
Analysis #: **336540**

Parameter	Limit Values	Result
Melting point	64-66 (°C)	64.00000 °C
Water by Karl Fischer	0-1 (%)	1.00000 %
Sulfated Ash	0-0.2 (%)	0.10000 %
Viscosity(50% in H ₂ O , 20°C)	11000-14000 (mPa·S)	11700.00000 mPa·S
Molecular mass(calculated from hydroxyl value)	25000-45000	34006.00000
Hydroxyl value	2.5-4.5 (mgKOH/g)	3.30000 mgKOH/g
pH(1.5g in 30ml H ₂ O)	5.5-7	6.00000
UV-ABS.at 260 nm	0-0.12	0.05000
UV-ABS.at 280 nm	0-0.12	0.10000
Aluminium(Al)	0-5 (ppm)	4.80000 ppm
Barium(Ba)	0-5 (ppm)	4.00000 ppm
Bismuth(Bi)	0-5 (ppm)	4.20000 ppm
Calcium(Ca)	0-10 (ppm)	9.60000 ppm
Cadmium(Cd)	0-5 (ppm)	3.90000 ppm
Cobalt(Co)	0-5 (ppm)	4.70000 ppm
Chromium(Cr)	0-5 (ppm)	4.00000 ppm
Copper(Cu)	0-5 (ppm)	4.20000 ppm
Iron(Fe)	0-5 (ppm)	3.70000 ppm
Potassium(K)	0-200 (ppm)	186.00000 ppm
Lithium(Li)	0-5 (ppm)	4.80000 ppm
Magnesium(Mg)	0-5 (ppm)	2.60000 ppm
Manganese(Mn)	0-5 (ppm)	4.60000 ppm
Molybdenum(Mo)	0-5 (ppm)	4.55000 ppm
Sodium(Na)	0-200 (ppm)	191.00000 ppm
Nickel(Ni)	0-5 (ppm)	4.00000 ppm

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Parameter	Limit Values	Result
Lead(Pb)	0-5 (ppm)	4.10000 ppm
Strontium(Sr)	0-5 (ppm)	1.60000 ppm
Zinc(Zn)	0-5 (ppm)	3.80000 ppm
Arsenic traces(MHS-AAS)	0-0.1 (ppm)	0.10000 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	44.00000 ppm
Chloride (Cl-)	0-50 (ppm)	39.00000 ppm
traces peroxide (as H ₂ O ₂)	0-50 (ppm)	29.00000 ppm
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