

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-11-16 16:07:44
 Date of Next Testing: 2026-11-15 16:07:44
 Product Name: **Poly(ethylene glycol)**
 CAS Number: 25322-68-3
 Specifications & Purity: Ultrapure BioReagent, for molecular biology, 8,000
 Lot #: K2308492
 SKU #: **P432427**
Analysis: 288969
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Melting point	61-64 (°C)	62.80000 °C
Water by Karl Fischer	0-0.5 (%)	0.37 %
Aluminium(Al)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-200 (ppm)	10.00 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.20 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Lead(Pb)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Arsenic traces(MHS-AAS)	0-0.1 (ppm)	0.00 ppm
Chloride (Cl-)	0-50 (ppm)	0.00 ppm
PH (1.500 g in 30ml H2O)	5.5-7.0	6.75100
UV - ABS. AT 260 NM(50 mg/mL in H2O)	≤ 0.15	0.05800
UV - ABS. AT 280 NM(50 mg/mL in H2O)	≤ 0.10	0.02300
Peroxide traces (AS H2O2)	0-10 (ppm)	0.00000 ppm

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Parameter	Limit Values	Result
Total Sulfur as SO ₄ (SO ₄)	0-50 (ppm)	0.00000 ppm
viscosity(rotating , 50 % IN H ₂ O, 20 °C)	250-450 (mPa·S)	251.00000 mPa·S
Hydroxyl value	12.5-16.0 (mgKOH/g)	12.52 mgKOH/g
Sodium(Na)	0-200 (ppm)	198.00 ppm
Appearance(P432427)	Colorless or White Powder or Crystals or Flakes	Colorless or White Powder or Crystals or Flakes
Infrared spectrum	Conforms to structure	Conforms to Structure
solubility (1.500 g in 30ml H ₂ O)Clear Colorless	pass	Pass
Residue (filter test)	no residue	no residue
extraneous Activities DNAses, RNAses, Proteases, Phosphatases Not Detectable	Pass	Pass

John Su
QA & QC Manager