

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-16 16:08:17  
 Date of Next Testing: 2026-11-15 16:08:17  
 Product Name: **Poly(ethylene glycol)**  
 CAS Number: 25322-68-3  
 Specifications & Purity: Ultrapure BioReagent, for molecular biology, 8,000  
 Lot #: K2308487  
 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 <sub>4</sub> (SO <sub>4</sub> )	0-50 (ppm)	0.00000 ppm
viscosity(rotating , 50 % IN H <sub>2</sub> 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 <sub>2</sub> 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