

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Specification Sheet

Product Name:	Poly(ethylene glycol)
Specifications & Purity:	Ultrapure BioReagent, for molecular biology, 8,000
SKU #	P432427

Parameter	Limit Values
Appearance(P432427)	Colorless or White Powder or Crystals or Flakes
Melting point	61-64 (°C)
Water by Karl Fischer	0-0.5 (%)
Infrared spectrum	Conforms to structure
viscosity(rotating , 50 % IN H2O, 20 °C)	250-450 (mPa·S)
Hydroxyl value	12.5-16.0 (mgKOH/g)
Aluminium(Al)	0-5 (ppm)
Barium(Ba)	0-5 (ppm)
Bismuth(Bi)	0-5 (ppm)
Calcium(Ca)	0-10 (ppm)
Cadmium(Cd)	0-5 (ppm)
Cobalt (Co)	0-5 (ppm)
Chromium(Cr)	0-5 (ppm)
Copper(Cu)	0-5 (ppm)
Iron(Fe)	0-5 (ppm)
Potassium(K)	0-200 (ppm)
Lithium(Li)	0-5 (ppm)
Magnesium (Mg)	0-5 (ppm)
Manganese(Mn)	0-5 (ppm)
Molybdenum(Mo)	0-5 (ppm)
Sodium(Na)	0-200 (ppm)
Nickel(Ni)	0-5 (ppm)
Lead(Pb)	0-5 (ppm)
Strontium(Sr)	0-5 (ppm)
Zinc(Zn)	0-5 (ppm)
Arsenic traces(MHS-AAS)	0-0.1 (ppm)
Chloride (Cl-)	0-50 (ppm)
PH (1.500 g in 30ml H2O)	5.5-7.0
solubility (1.500 g in 30ml H2O)Clear Colorless	pass
Residue (filter test)	no residue
UV - ABS. AT 260 NM(50 mg/mL in H2O)	≤ 0.15

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Parameter	Limit Values
UV - ABS. AT 280 NM(50 mg/mL in H ₂ O)	≤ 0.10
Peroxide traces (AS H ₂ O ₂)	0-10 (ppm)
Total Sulfur as SO ₄ (SO ₄)	0-50 (ppm)
extraneous Activities DNAses, RNAses, Proteases, Phosphatases Not Detectable	Pass