

Certificate of Analysis

Date of Testing:	2023-10-20 11:00:59
Date of Next Testing:	2026-10-19 11:00:59
Product Name:	Poly(ethylene glycol)
CAS Number:	25322-68-3
Specifications & Purity:	BioUltra, 8,000
Lot #:	J2312303
SKU #	P615464
Analysis:	278789
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Viscosity(50% in H ₂ O , 20°C)	250-450 (mPa·S)	306.50000 mPa·S
Melting point	60-65 (°C)	63.90000 °C
Water by Karl Fischer	0-0.5 (%)	0.44 %
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)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-200 (ppm)	0.40 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)	0.00 ppm
Sodium(Na)	0-200 (ppm)	162.00 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
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	0.00 ppm
Chloride (Cl ⁻)	0-50 (ppm)	0.00 ppm
pH(5% aqueous solution)	4.5-7.5	7.29600

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Parameter	Limit Values	Result
UV - ABS. AT 260 NM(50 mg/mL in H2O)	0-0.09	0.05600
UV - ABS. AT 280 NM(50 mg/mL in H2O)	0-0.03	0.02800
Hydroxy Value	12-16 (mgKOH/g)	12.65 mgKOH/g
Average Molecular Weight	7000-9000	8990.00
traces peroxide (as H2O2)	0-10 (ppm)	8.10000 ppm
Appearance(P615464)	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 H2O)Clear	pass	Pass
Colorless		

John Su
QA & QC Manager