

Certificate of Analysis

Date of Testing:	2024-08-24 16:20:46
Date of Next Testing:	2027-08-24 16:20:46
Product Name:	Poly(ethylene glycol)
CAS Number:	25322-68-3
Specifications & Purity:	BioUltra, 6,000
Lot #:	H2414322
SKU #	P615486
Version	2
Analysis #:	351529
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.5 (%)	0.10 %
Sulphated ash	0-0.2 (%)	0.00000 %
Melting point	60-63 (°C)	61.00000 °C
Viscosity(50% in H ₂ O , 20°C)	210-262 (mPa·S)	226.00000 mPa·S
Hydroxyl value	16-23 (mg/g)	19.00000 mg/g
Peroxide (as H ₂ O ₂)	< 20 (ppm)	10.36000 ppm
Aluminum(Al)	0-5 (ppm)	0.36 ppm
Barium(Ba)	0-5 (ppm)	0.35 ppm
Bismuth(Bi)	0-5 (ppm)	0.32 ppm
Calcium(Ca)	0-10 (ppm)	1.05 ppm
Cadmium(Cd)	0-5 (ppm)	0.35 ppm
Cobalt(Co)	0-5 (ppm)	0.36 ppm
Chromium(Cr)	0-5 (ppm)	0.28 ppm
Copper(Cu)	0-5 (ppm)	0.42 ppm
Iron(Fe)	0-5 (ppm)	0.25 ppm
Potassium(K)	0-200 (ppm)	0.18 ppm
Lithium(Li)	0-5 (ppm)	0.26 ppm
Magnesium(Mg)	0-5 (ppm)	0.26 ppm
Manganese(Mn)	0-5 (ppm)	0.26 ppm
Molybdenum(Mo)	0-5 (ppm)	0.54 ppm
Sodium(Na)	0-200 (ppm)	0.54 ppm
Nickel(Ni)	0-5 (ppm)	0.26 ppm
Lead(Pb)	0-5 (ppm)	0.17 ppm
Strontium(Sr)	0-5 (ppm)	0.16 ppm
Zinc(Zn)	0-5 (ppm)	0.51 ppm

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Parameter	Limit Values	Result
Arsenic(As)	0-0.1 (ppm)	0.03000 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	2.58 ppm
Chloride (Cl ⁻)	0-50 (ppm)	2.54 ppm
PH(1.5 in 30ml H ₂ O)	5.5-7.0	6.10000
Molecular Mass (Calculated from Hydroxyl Value)	5000-7000	6035.00000
Appearance(P615486)	Colorless or White Powder or Crystals or Flakes	Colorless or White Powder or Crystals or Flakes
Infrared spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager