

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-08-29 16:33:49

Date of Next Testing: 2029-08-28 16:33:49

Product Name: **Poly(ethylene glycol) (PEG)**

CAS Number: 25322-68-3

Grades & Purity: UltraBio™, Ultra pure, 2000

Lot #: H2625004

SKU #: **P615477**

Version: **2**

Analysis #: **746378**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Aluminium(Al)	0-5 (ppm)	0.01000 ppm
Arsenic(As)	0-0.1 (ppm)	0.01000 ppm
Barium(Ba)	0-5 (ppm)	0.01000 ppm
Bismuth(Bi)	0-5 (ppm)	0.01000 ppm
Cadmium(Cd)	0-5 (ppm)	0.01000 ppm
Calcium(Ca)	0-10 (ppm)	0.01000 ppm
Chloride(Cl-)	0-50 (ppm)	0.32500 ppm
Chromium(Cr)	0-5 (ppm)	0.01000 ppm
Cobalt(Co)	0-5 (ppm)	0.01000 ppm
Copper(Cu)	0-5 (ppm)	0.01000 ppm
Hydroxyl value	51-59 (mgKOH/g)	52.00000 mgKOH/g
Iron(Fe)	0-5 (ppm)	0.01000 ppm
Lead(Pb)	0-5 (ppm)	0.01000 ppm
Lithium(Li)	0-5 (ppm)	0.01000 ppm
Magnesium(Mg)	0-5 (ppm)	0.01000 ppm
Manganese(Mn)	0-5 (ppm)	0.01000 ppm
Melting point	50-53 (°C)	53.00000 °C
Molecular Number Mn (GPC-Analysis)	Report Result	1627.00000
Molecular Weight Mp (GPC-Analysis)	Report Result	1769.00000
Molecular Weight Mw (GPC-Analysis)	Report Result	1789.00000
Molecular Weight Mz (GPC-Analysis)	Report Result	1955.00000
Molybdenum(Mo)	0-5 (ppm)	0.01000 ppm
Nickel(Ni)	0-5 (ppm)	0.01000 ppm
PH(Solution)	5.5-7.0	6.30000

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
Polydispersity Index(PDI)(GPC-Analysis)	Report Result	1.10000
Potassium(K)	0-200 (ppm)	1.03200 ppm
Sodium(Na)	0-200 (ppm)	0.52600 ppm
Strontium(Sr)	0-5 (ppm)	0.01000 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	0.13500 ppm
Traces Peroxide(As H ₂ O ₂)	0-10 (ppm)	0.15800 ppm
Sulfated Ash	0-0.2 (%)	0.00000 %
UV-ABS.at 260 nm	0-0.1	0.10000
UV-ABS.at 280 nm	0-0.04	0.00000
Viscosity(50% in H ₂ O , 20°C)	47-75 (mPa·S)	51.00000 mPa·S
Water by Karl Fischer	0-1 (%)	0.30000 %
Zinc(Zn)	0-5 (ppm)	0.01000 ppm
Appearance(P615477)	Colorless or White Powder or Crystals or Flakes	Colorless or White Powder or Crystals or Flakes
Infrared spectrum	Conforms to Structure	Conforms to Structure
metal trace analysis (icp)	corresponds to requirements	CORRESPONDS TO REQUIREMENTS
Residue (filter test)	no residue	no residue
solubility,1.500 G IN 30 ML H ₂ O clear, pass		Pass
colorless		



John Su
QA & QC Manager