

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-05-28 12:08:40

Date of Next Testing: 2029-05-27 12:08:40

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

CAS Number: 25322-68-3

Specifications & Purity: UltraBio™, Ultra pure, 2000

Lot #: E2627550

SKU #: **P615477**

Version: **2**

Analysis #: **712239**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Aluminium(Al)	0-5 (ppm)	0.10000 ppm
Arsenic(As)	0-0.1 (ppm)	0.01000 ppm
Barium(Ba)	0-5 (ppm)	0.10000 ppm
Bismuth(Bi)	0-5 (ppm)	0.10000 ppm
Cadmium(Cd)	0-5 (ppm)	0.10000 ppm
Calcium(Ca)	0-10 (ppm)	0.10000 ppm
Chloride (Cl-)	0-50 (ppm)	1.63200 ppm
Chromium(Cr)	0-5 (ppm)	0.10000 ppm
Cobalt(Co)	0-5 (ppm)	0.10000 ppm
Copper(Cu)	0-5 (ppm)	0.10000 ppm
Hydroxyl value	51-59 (mgKOH/g)	56.00000 mgKOH/g
Iron(Fe)	0-5 (ppm)	0.10000 ppm
Lead(Pb)	0-5 (ppm)	0.10000 ppm
Lithium(Li)	0-5 (ppm)	0.10000 ppm
Magnesium(Mg)	0-5 (ppm)	0.10000 ppm
Manganese(Mn)	0-5 (ppm)	0.10000 ppm
Melting point	50-53 (°C)	53.00000 °C
Molybdenum(Mo)	0-5 (ppm)	0.10000 ppm
Nickel(Ni)	0-5 (ppm)	0.10000 ppm
PH(Solution)	5.5-7.0	6.30000
Potassium(K)	0-200 (ppm)	2.68600 ppm
Sodium(Na)	0-200 (ppm)	1.62500 ppm
Strontium(Sr)	0-5 (ppm)	0.10000 ppm
Total sulfur as SO4 (ICP)	0-50 (ppm)	1.63200 ppm
Traces Peroxide(As H2O2)	0-10 (ppm)	0.52600 ppm

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Parameter	Limit Values	Result
Sulfated Ash	0-0.2 (%)	0.10000 %
UV-ABS.at 260 nm	0-0.1	0.00000
UV-ABS.at 280 nm	0-0.04	0.00000
Viscosity(50% in H ₂ O , 20°C)	47-75 (mPa·S)	58.00000 mPa·S
Water by Karl Fischer	0-1 (%)	0.30000 %
Zinc(Zn)	0-5 (ppm)	0.01000 ppm
Molecular Number Mn (GPC-Analysis)	Report Result	2424.00000
Molecular Weight Mp (GPC-Analysis)	Report Result	2574.00000
Molecular Weight Mw (GPC-Analysis)	Report Result	2604.00000
Molecular Weight Mz (GPC-Analysis)	Report Result	2604.00000
Polydispersity Index(PDI)(GPC-Analysis)	Report Result	1.07000
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, colorless	pass	Pass



John Su
QA & QC Manager