

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-01-22 18:30:06
 Date of Next Testing: 2029-01-21 18:30:06
 Product Name: **Poly(ethylene glycol) (PEG)**
 CAS Number: 25322-68-3
 Specifications & Purity: UltraBio™, Ultra pure, 2000
 Lot #: A2616296
 SKU #: **P615477**
 Version: **2**
 Analysis #: **604674**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Aluminium(Al)	0-5 (ppm)	2.50000 ppm
Arsenic(As)	0-0.1 (ppm)	0.05000 ppm
Barium(Ba)	0-5 (ppm)	2.10000 ppm
Bismuth(Bi)	0-5 (ppm)	3.00000 ppm
Cadmium(Cd)	0-5 (ppm)	1.95000 ppm
Calcium(Ca)	0-10 (ppm)	1.50000 ppm
Chloride(Cl-)	0-50 (ppm)	25.00000 ppm
Chromium(Cr)	0-5 (ppm)	3.90000 ppm
Cobalt(Co)	0-5 (ppm)	4.10000 ppm
Copper(Cu)	0-5 (ppm)	2.20000 ppm
Hydroxyl value	51-59 (mgKOH/g)	52.00000 mgKOH/g
Iron(Fe)	0-5 (ppm)	1.98000 ppm
Lead(Pb)	0-5 (ppm)	2.11000 ppm
Lithium(Li)	0-5 (ppm)	3.09000 ppm
Magnesium(Mg)	0-5 (ppm)	0.80000 ppm
Manganese(Mn)	0-5 (ppm)	3.20000 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)	2.09000 ppm
Nickel(Ni)	0-5 (ppm)	0.95000 ppm
PH(Solution)	5.5-7.0	6.30000

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Parameter	Limit Values	Result
Polydispersity Index(PDI)(GPC-Analysis)	Report Result	1.10000
Potassium(K)	0-200 (ppm)	50.00000 ppm
Sodium(Na)	0-200 (ppm)	50.00000 ppm
Strontium(Sr)	0-5 (ppm)	2.30000 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	6.50000 ppm
Traces Peroxide(As H ₂ O ₂)	0-10 (ppm)	3.00000 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)	2.10000 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