

Shanghai Aladdin Biochemical Technology Co., LTD  
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

## Certificate of Analysis

Date of Testing: 2026-09-07 17:17:29  
Date of Next Testing: 2029-09-06 17:17:29  
Product Name: **Poly(ethylene glycol) (PEG)**  
CAS Number: 25322-68-3  
Specifications & Purity: UltraBio™, Ultra pure, 35000  
Lot #: I2601042  
SKU #: **P432425**  
Version: **1**  
Analysis #: **679029**  
Storage Temperature: Room temperature

| Parameter                                           | Limit Values        | Result            |
|-----------------------------------------------------|---------------------|-------------------|
| Melting point                                       | 64-66 (°C)          | 65.00000 °C       |
| Water by Karl Fischer                               | 0-1 (%)             | 1.00000 %         |
| Sulfated Ash                                        | 0-0.2 (%)           | 0.00000 %         |
| Viscosity(50% in H <sub>2</sub> O , 20°C)           | 11000-14000 (mPa·S) | 13182.00000 mPa·S |
| Molecular mass(calculated from hydroxyl value)      | 25000-45000         | 29532.00000       |
| Hydroxyl value                                      | 2.5-4.5 (mgKOH/g)   | 3.80000 mgKOH/g   |
| traces peroxide (as H <sub>2</sub> O <sub>2</sub> ) | 0-50 (ppm)          | 1.52600 ppm       |
| Aluminium(Al)                                       | 0-5 (ppm)           | 0.01000 ppm       |
| Barium(Ba)                                          | 0-5 (ppm)           | 0.01000 ppm       |
| Bismuth(Bi)                                         | 0-5 (ppm)           | 0.01000 ppm       |
| Calcium(Ca)                                         | 0-10 (ppm)          | 1.32500 ppm       |
| Cadmium(Cd)                                         | 0-5 (ppm)           | 0.01000 ppm       |
| Cobalt(Co)                                          | 0-5 (ppm)           | 0.01000 ppm       |
| Chromium(Cr)                                        | 0-5 (ppm)           | 0.01000 ppm       |
| Copper(Cu)                                          | 0-5 (ppm)           | 0.01000 ppm       |
| Iron(Fe)                                            | 0-5 (ppm)           | 0.01000 ppm       |
| Potassium(K)                                        | 0-200 (ppm)         | 3.52600 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       |
| Molybdenum(Mo)                                      | 0-5 (ppm)           | 0.01000 ppm       |
| Sodium(Na)                                          | 0-200 (ppm)         | 3.83600 ppm       |
| Nickel(Ni)                                          | 0-5 (ppm)           | 0.01000 ppm       |
| Lead(Pb)                                            | 0-5 (ppm)           | 0.01000 ppm       |

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|---------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Strontium(Sr)                         | 0-5 (ppm)                                       | 0.01000 ppm                                     |
| Zinc(Zn)                              | 0-5 (ppm)                                       | 0.01000 ppm                                     |
| Arsenic traces(MHS-AAS)               | 0-0.1 (ppm)                                     | 0.00100 ppm                                     |
| Total sulfur as SO <sub>4</sub> (ICP) | 0-50 (ppm)                                      | 2.56300 ppm                                     |
| Chloride (Cl <sup>-</sup> )           | 0-50 (ppm)                                      | 1.63800 ppm                                     |
| pH(1.5g in 30ml H <sub>2</sub> O)     | 5.5-7                                           | 6.10000                                         |
| UV-ABS.at 260 nm                      | 0-0.12                                          | 0.05000                                         |
| UV-ABS.at 280 nm                      | 0-0.12                                          | 0.09000                                         |
| Appearance(P432425)                   | Colorless or White Powder or Crystals or Flakes | Colorless or White Powder or Crystals or Flakes |
| Infrared spectrum                     | Conforms to Structure                           | Conforms to Structure                           |
| Residue (filter test)                 | no residue                                      | no residue                                      |

