

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-10-09 13:32:37  
Date of Next Testing: 2027-10-09 13:32:37  
Product Name: **Polyethylene glycol 4000**  
CAS Number: 25322-68-3  
Specifications & Purity: Pharmaceutical grade Ph Eur  
Lot #: I2424061  
SKU #: **P432443**  
Version: **1**  
Analysis #: **348396**  
Storage Temperature: Room temperature

| Parameter                    | Limit Values                       | Result                             |
|------------------------------|------------------------------------|------------------------------------|
| Mole Weight, Average         | 3600-4400                          | 4184.00000                         |
| pH(25°C 5% aqueous solution) | 4.5-7.5                            | 6.44000                            |
| Hydroxyl value               | 25-32                              | 26.07000                           |
| Water by Karl Fischer        | 0-1 (%)                            | 0.66 %                             |
| Sulphated ash                | 0-0.2 (%)                          | 0.00000 %                          |
| Viscosity(210° F)            | 110-158 (mm <sup>2</sup> /s)       | 118.00000 mm <sup>2</sup> /s       |
| Residue on Ignition          | 0-0.1 (%)                          | 0.00000 %                          |
| Ethylene oxide               | 0-0.0001 (%)                       | 0.00 %                             |
| 1,4-Dioxane                  | 0-0.001 (%)                        | 0.00000 %                          |
| formaldehyde                 | 0-0.0015 (%)                       | 0.00 %                             |
| Diethylene glycol            | 0-0.03 (%)                         | 0.02000 %                          |
| Ethylene Glycol              | 0-0.03 (%)                         | 0.01 %                             |
| Appearance(P432443)          | white solid with a waxy appearance | white solid with a waxy appearance |



John Su  
QA & QC Manager