

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-14 14:02:11  
 Date of Next Testing: 2027-06-13 14:02:11  
 Product Name: **Polyethylene glycol (PEG)**  
 CAS Number: 25322-68-3  
 Specifications & Purity: average Mn 20000  
 Lot #: F2308418  
 SKU #: **P103730**  
 Version: **2**  
 Analysis #: **226383**  
 Storage Temperature: Room temperature, Desiccated, Cool

| Parameter                                                      | Limit Values                        | Result                              |
|----------------------------------------------------------------|-------------------------------------|-------------------------------------|
| pH                                                             | 4-7                                 | 6.54000                             |
| loss on Ignition                                               | 0-0.2 (%)                           | 0.10800 %                           |
| Water by Karl Fischer                                          | 0-1 (%)                             | 0.38500 %                           |
| Average Mn                                                     | 18500-22000                         | 18710.00000                         |
| Sulfate Ash                                                    | 0-0.2 (%)                           | 0.15200 %                           |
| Melting point                                                  | 63-66 (°C)                          | 63.95000 °C                         |
| Hydroxy Value                                                  | 4.5-7 (mgKOH/g)                     | 5.83000 mgKOH/g                     |
| Viscosity(250mg/ml in water, 40°C)                             | 26-50 (mm <sup>2</sup> /s)          | 48.24690 mm <sup>2</sup> /s         |
| Appearance (P103730)                                           | white powder or flakes or particles | white powder or flakes or particles |
| Solubility in hot H <sub>2</sub> O , Colorless, Clear, 1g/10ml | pass                                | Pass                                |
| Infrared spectrum                                              | Conforms to Structure               | Conforms to Structure               |



John Su  
QA & QC Manager