

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-06-01 10:47:06  
Date of Next Testing: 2028-05-31 10:47:06  
Product Name: **Polyethylene glycol**  
CAS Number: 25322-68-3  
Specifications & Purity: average Mn 20000  
Lot #: E2413432  
SKU #: **P103730**  
Version: **0**  
Analysis #: **323782**  
Storage Temperature: Desiccated

| Parameter                                                    | Limit Values                        | Result                              |
|--------------------------------------------------------------|-------------------------------------|-------------------------------------|
| PH                                                           | 4-7                                 | 5.92                                |
| loss on Ignition                                             | 0-0.2 (%)                           | 0.11 %                              |
| Water by Karl Fischer                                        | 0-1 (%)                             | 0.51 %                              |
| Average Mn                                                   | 18500-22000                         | 19000.00                            |
| Sulfate Ash                                                  | 0-0.2 (%)                           | 0.10 %                              |
| Melting point                                                | 63-66 (°C)                          | 63.87000 °C                         |
| Hydroxy Value                                                | 4.5-7 (mgKOH/g)                     | 5.30 mgKOH/g                        |
| Viscosity(250mg/ml in water,40°C)                            | 26-50 (mm <sup>2</sup> /s)          | 26.01 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