

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-04-19 12:09:00  
Date of Next Testing: 2026-04-18 12:09:00  
Product Name: **Poly(ethyleneimine) solution**  
CAS Number: 9002-98-6  
Specifications & Purity: ~50% in H<sub>2</sub>O  
Lot #: D2312547  
SKU #: **P434393**  
**Analysis:** **201905**  
Storage Temperature: Room temperature, Argon charged

| Parameter  | Limit Values   | Result   |
|--|--|--|
| Molecular Weight   | 600000-1000000   | 750000.00  |
| Viscosity(20 °C, neat)                                     | 18-40 (Pa·S)   | 18.10000 Pa·s  |
| Purity(Titration by N-Determination according to Kjeldahl) | 47-53 (%)  | 50.41 %  |
| Appearance(P434393)  | Colorless to Very Light Yellow and Colorless to Very Light Green-Yellow Liquid or Viscous Liquid | Colorless to Very Light Yellow and Colorless to Very Light Green-Yellow Liquid or Viscous Liquid |
| Infrared spectrum  | conforms to structure  | Conforms to Structure  |



John Su  
QA & QC Manager