

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-12-05 18:35:04  
 Date of Next Testing: 2028-12-04 18:35:04  
 Product Name: **Polyglutamic Acid sodium salt( $\gamma$ -PGA)**  
 CAS Number: 28829-38-1  
 Specifications & Purity:  $\geq 92\%$   
 Lot #: L2502631  
 SKU #: **P1506123**  
 Version: **1**  
 Analysis #: **609193**  
 Storage Temperature: Store at 2-8°C, Protected from light, Desiccated

| Parameter                                      | Limit Values                          | Result                                |
|------------------------------------------------|---------------------------------------|---------------------------------------|
| Molecular weight                               | $\geq 700$ (KDa)                      | 715.26300 kDa                         |
| Purity(HPLC)                                   | 92-100 (%)                            | 94.30000 %                            |
| loss on drying(105°C, 2 h)                     | 0-8 (%)                               | 5.60000 %                             |
| Heavy metals                                   | 0-20 (ppm)                            | 20.00000 ppm                          |
| Transmittance(5g/L in H <sub>2</sub> O, 400nm) | 95-100 (%)                            | 98.20000 %                            |
| pH(10g/L, 25 °C)                               | 5.0-7.5                               | 6.20000                               |
| Total Plate Count                              | 0-100(CFU/g)                          | 40.00000 cfu/g                        |
| Appearance(P1506123-02)                        | White to off white granular or powder | White to off white granular or powder |



John Su  
QA & QC Manager