

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-09 09:08:01

Date of Next Testing: 2029-09-08 09:08:01

Product Name: **DL-Pyroglutamic acid**

CAS Number: 149-87-1

Specifications & Purity: Moligand™, ≥98%

Lot #: K21171250

SKU #: **P106219**

Version: **1**

Analysis #: **568093**

Storage Temperature: Room temperature

| Parameter                     | Limit Values          | Result                |
|-------------------------------|-----------------------|-----------------------|
| Melting point                 | 182-186 (°C)          | 185.50000 °C          |
| Purity(NonaqueousTitration)   | 98.5-101.5 (%)        | 98.90000 %            |
| Ignition Residue (as sulfate) | 0-0.3 (%)             | 0.01000 %             |
| Purity(HPLC)                  | 98-100 (%)            | 98.92000 %            |
| Heavy metal (as Pb)           | 0-20 (ppm)            | 10.25000 ppm          |
| Loss on drying                | 0-0.5 (%)             | 0.02000 %             |
| Appearance (P106219)          | white powder          | White powder          |
| Proton NMR spectrum           | Conforms to structure | Conforms to Structure |



John Su  
QA & QC Manager