

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-11 10:23:21

Date of Next Testing: 2027-04-10 10:23:21

Product Name: **DL-Pyroglutamic acid**

CAS Number: 149-87-1

Specifications & Purity: Moligand™, ≥98%

Lot #: F1914046

SKU #: **P106219**

Version: **1**

Analysis #: **208801**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Melting point	182-186 (°C)	185.89000 °C
Purity(NonaqueousTitration)	98.5-101.5 (%)	99.14000 %
Ignition Residue (as sulfate)	0-0.3 (%)	0.19000 %
Purity(HPLC)	98-100 (%)	99.62970 %
Heavy metal (as Pb)	0-20 (ppm)	13.00000 ppm
Loss on drying	0-0.5 (%)	0.22000 %
Appearance (P106219)	white powder	White powder
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager