

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-10-17 15:55:20

Date of Next Testing: 2028-10-16 15:55:20

Product Name: **D-Pyroglutamic acid**

CAS Number: 4042-36-8

Specifications & Purity: $\geq 98\%$

Lot #: J2414805

SKU #: **P106190**

Version: **0**

Analysis #: **375584**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=5 \text{ in H}_2\text{O})}$	9.5-12.5 (°)	10.48000 °
Purity(HPLC)	98-100 (%)	99.12000 %
Purity(Nonaqueous Titration)	97.5-102.5 (%)	99.44000 %
Melting point	159-164 (°C)	162.15000 °C
Appearance (P106190)	White Powder or Crystals	White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager