QualityAssurance@aladdinsci.com
ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2025-05-21 14:20:51
Date of Next Testing:	2028-05-20 14:20:51
Product Name:	**Boc-D-pyroglutamic acid methyl ester**
CAS Number:	128811-48-3
Specifications & Purity:	≥98%
Lot #:	J1922202
SKU #	**R190465**
Version	**0**
Analysis #:	**512625**
Storage Temperature:	Room temperature

Parameter	**Limit Values**	**Result**
Specific Rotation [a]20/D(c=1.039 in CHCL3)	29.5-33.5（°）	33.20 °
Purity(HPLC)	98-100（%）	99.60000 %
Melting point	67-72（℃）	71.00000 ℃
Appearance（R190465)	White to Off-White to Faint Red Powder	White to Off-White to Faint Red Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager