

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-18 15:13:24
 Date of Next Testing: 2028-09-17 15:13:24
 Product Name: **Boc-D-pyroglutamic acid methyl ester**
 CAS Number: 128811-48-3
 Specifications & Purity: $\geq 98\%$
 Lot #: L2209717
 SKU #: **R190465**
 Version: **0**
 Analysis #: **573410**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=1.039 \text{ in CHCl}_3)$	29.5-33.5 (°)	32.16°
Purity(HPLC)	98-100 (%)	99.87000 %
Melting point	67-72 (°C)	70.50000 °C
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