

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-01-25 18:12:39
 Date of Next Testing: 2024-01-25 18:12:39
 Product Name: **N-(tert-Butoxycarbonyl)-L-pyroglutamic Acid**
 CAS Number: 53100-44-0
 Specifications & Purity: $\geq 98\%$ (HPLC)(T)
 Lot #: E1618073
 SKU #: **S138951**
 Version: **0**
 Analysis #: **070328**
 Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in CHCl}_3)$	-36--33 (°)	-34.00000 °
Melting point	117-121 (°C)	118.20000 °C
Purity(HPLC)	98-100 (%)	99.71000 %
Appearance (S138951)	White to Tan Powder or Crystals	White to Tan Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager