

Certificate of Analysis

Date of Testing: 2022-12-17 11:35:54
Date of Next Testing: 2025-12-16 11:35:54
Product Name: **N-Boc-4-oxo-L-proline tert-butyl ester**
CAS Number: 166410-05-5
Specifications & Purity: $\geq 97\%$
Lot #: L2209912
SKU #: **N138347**
Analysis: **147408**

| Parameter | Limit Values | Result |
|----------------------|----------------------------|----------------------------|
| Optical purity(ee) | 99-100 (%) | 99.37% |
| Purity(HPLC) | 97-100 (%) | 98.46500% |
| Melting point | 64-67 (°C) | 66.58000 °C |
| Appearance (N138347) | Yellow to Off-White Powder | Yellow to Off-White Powder |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager