

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-15 11:43:07
 Date of Next Testing: 2024-11-14 11:43:07
 Product Name: **N-Boc-1-Boc-L-tryptophan**
 CAS Number: 144599-95-1
 Specifications & Purity: $\geq 95\%$
 Lot #: K2211717
 SKU #: **N132638**
 Version: **0**
 Analysis #: **108898**
 Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(HPLC)	95-100 (%)	99.88800 %
Specific Rotation $[\alpha]_{20/D(c=3 \text{ in DMF})}$	$-12.5 \sim -8.5 (^{\circ})$	-9.22900°
Mass spectrum	Conforms to standard	Conforms to standard
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager