

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-13 10:39:04

Date of Next Testing: 2027-12-13 10:39:04

Product Name: **Fmoc-7-hydroxy-(s)-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid**

CAS Number: 178432-49-0

Specifications & Purity: $\geq 98\%$

Lot #: C2215043

SKU #: **F182193**

Version: **1**

Analysis #: **448812**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	98.30000 %
Specific rotation $[\alpha]_{20/D}(c=1\% \text{ in DMF})$	20.54-24.54 (°)	22.30000 °
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager