

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-05 14:26:07  
Date of Next Testing: 2026-07-04 14:26:07  
Product Name: **(S)-Reticuline**  
CAS Number: 1699-46-3  
Specifications & Purity:  $\geq 97\%$   
Lot #: F23271406  
SKU #: **R352414**  
Version: **1**  
Analysis #: **231770**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$

Parameter	Limit Values	Result
Purity(HPLC area)	97-100 (%)	99.70 %
Enantiomeric Excess	98-100 (%)	98.10000 %
LC-MS for identification	Conforms	Conforms
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Appearance(R352414)	white to Cream powder or crystal	White to cream Powder or crystals



John Su  
QA & QC Manager