

## Certificate of Analysis

Date of Testing: 2023-08-02 13:39:55  
Date of Next Testing: 2025-07-22 13:39:55  
Product Name: **(S,S)-(+)-Tetrandrine**  
CAS Number: 518-34-3  
Specifications & Purity: analytical standard, ≥98%(HPLC), for drug analysis  
Lot #: K2110174  
SKU #: **T107322**  
Analysis: **258632**

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=1 in CHCL <sub>3</sub> )	270-300 (°)	288.20 °
Purity(HPLC)	98-100 (%)	99.17400 %
Appearance (T107322)	White to Off-White Powder	White to Off-White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager