

## 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 #: K2110212  
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