



# Certificate of analysis

Product name: Matrine

Cas number: 519-02-8

Molecular Formula: C<sub>15</sub>H<sub>24</sub>N<sub>2</sub>O

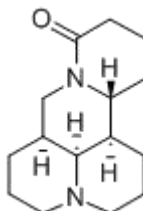
Molecular Weight: 248.36

Date of production: May. 15, 2020

Batch No: 20200515

Exp Date: May. 14, 2022

Chemical structure:



Items	Specifications	Results
Characteristics	White crystalline powder	Conforms
Identification	NMR, HPLC	Conforms
Specific Optical Rotation	+31 to +36°	+34.1°
PH	9.5~10.5	10.2
Loss on drying	≤2.0%	1.9%
Chloride	≤0.01%	Conforms
residue on ignition	≤1.0%	Conforms
Assay	≥980%	99.5%

**Conclusion: It complies with the Enterprise Standard.**

Analyst: Zhao

Checker: Liu

Q.C Director. Fang F