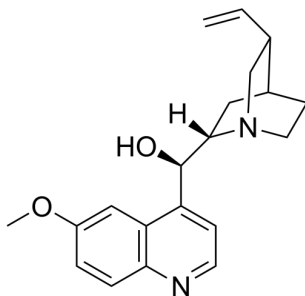


## Certificate of Analysis

### Compound Information

Product Name:	Quinine
Cat. No.:	1019538
CAS No.:	130-95-0
Molecular Formula:	C <sub>20</sub> H <sub>24</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	324.42
Chemical Structure:	



### Batch Information

Batch No.:	La1110033
Storage:	2-8°C, protect from light, stored under nitrogen
Test Date:	2017-11-10
Retest Date:	2022-11-09
Origin:	Shanghai, China

### QC Summary

Appearance:	White to off-white (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
Optical Rotation:	Consistent with structure
Purity (NMR):	≥97.0%
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Research use only and are not intended for human use.

Tel: 400-821-0725

E-mail: [product@leyan.com](mailto:product@leyan.com)

Address: No. 1999 Zhangheng Road, Building 3, Zhangjiang High-Tech Park, Shanghai