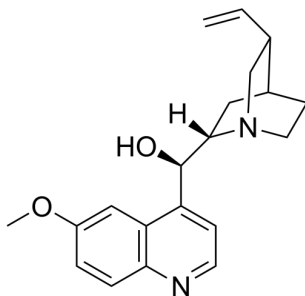


## Certificate of Analysis

### 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.:	Lf0411129183
Storage:	2-8°C, protect from light, stored under nitrogen
Test Date:	2022-04-11
Retest Date:	2025-04-10
Origin:	Shanghai, China

### QC Summary

Appearance:	White to off-white (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
Purity (NMR):	≥97.0%
Water(KF):	0.12%
Residue on Ignition:	0.18%
OR[α](C=1 g/100ml ETOH):	-166.9°
Conclusion:	The product has been tested and complies with the given specifications.

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

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