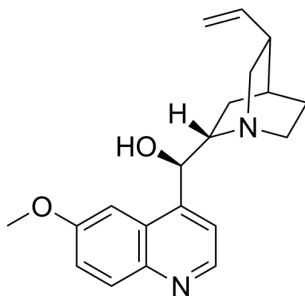


Certificate of Analysis

Compound Information

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



Batch Information

| | |
|--------------|--|
| Batch No.: | Ld120424912 |
| Storage: | 2-8°C, protect from light, stored under nitrogen |
| Test Date: | 2020-12-04 |
| Retest Date: | 2023-12-03 |
| Origin: | Shanghai, China |

QC Summary

| | |
|------------------------------|---|
| Appearance: | White to off-white (Solid) |
| ¹ H NMR Spectrum: | Consistent with structure |
| Optical Rotation: | Consistent with structure |
| Purity (NMR): | ≥97.0% |
| Water(KF): | 0.39% |
| 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

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