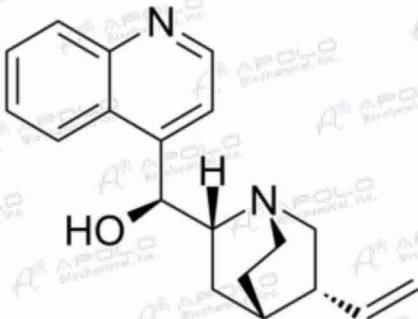


CERTIFICATE OF ANALYSIS

Product Name: Cinchonine

Chemical Structure:



Lot Number: 244091CS0008420

CAT Number: APL-0118105

CAS Registry Number: 118-10-5

Manufacture Date: 10/2022

Expiry Date: 10/2024

Molecular Formula: C₁₉H₂₂N₂O

Molecular Weight: 294.39

Storage: 2-8°C, protect from light

Target: Apoptosis; Parasite

Pathway: Anti-infection; Apoptosis

Solubility: DMSO: 4.76 mg/mL
(16.17 mM; Need ultrasonic)

Analysis Data

Item	Specification	Results
Appearance	White to off-white (Solid)	Conforms
Purity	≥ 98.0 %	98.8 %
¹ H NMR Spectrum	Consistent with structure	Conforms

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Jennifer LaBrecque

Jennifer LaBrecque 11/2022
Quality Assurance Manager

Conclusion: The above product meets the specifications of APOLO

CAS NO.: 118-10-5, CDCL3

Parameter	Value
1 Title	20220805
2 Spectrometer	spec
3 Solvent	CDCl3
4 Temperature	300.0
5 Pulse Sequence	zg30
6 Experiment	1D
7 Number of Scans	32
8 Receiver Gain	203
9 Relaxation Delay	1.0000
10 Pulse Width	13.0000
11 Acquisition Time	2.9999
12 Acquisition Date	2022-08-05T14:56:33
13 Modification Date	2022-08-05T14:56:34
14 Spectrometer Frequency	400.13
15 Spectral Width	8802.8
16 Lowest Frequency	-2000.6
17 Nucleus	1H
18 Acquired Size	26408
19 Spectral Size	32768

