



## Certificate of Analysis-Cinchonine

CAS: 118-10-5

Batch Number: FTF0240226 Batch Quantity: 160kg

Manufacture Date: Feb.24<sup>th</sup>,2024 Analysis Date: Feb.25<sup>th</sup>,2024 Certificate Date: Feb.26<sup>th</sup>,2024

Storage Store in cool & dry place. Store in well-closed containers.  
Shelf life 3 years when properly stored.

Items	Standard	Result
Appearance	White crystalline or granular powder	Conform
Solubility	Slightly soluble in chloroform, sparingly soluble in Alcohol, and practically insoluble in water.	Conform
Specific rotation	Between +219° to +229°	+220.81°
Loss on drying	NMT 1.0%	0.74%
Melting point	Between 255.0 to 261.0°C	256.9°C
Assay	NLT 99.0% of C <sub>19</sub> H <sub>22</sub> N <sub>2</sub> O, calculated on the dried basis.	99.79%
Purity (By HPLC)	-	87.20%
Residual solvent byGC a. Toluene b. Benzene	a. Max 100ppm b. Max 2ppm	0.00ppm 0.00ppm
Conclusion	Qualified.	

QC MANAGER: 刘娟 INSPECTOR: 黄子辉

