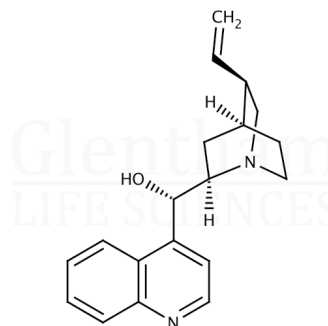


Certificate of Analysis

Product Name Cinchonine
Glentham Code GK1431
CAS Number 118-10-5
EINECS 204-234-6
MDL Number MFCD00064372
PubChem SID 310270267
Batch Number 585DRG

Molecular Weight 294.39
Molecular Formula $C_{19}H_{22}N_2O$
Storage Temp. +20°C



Property	Specification	Batch 585DRG
Physical Description	White to off-white powder	Off-white powder
Specific Optical Rotation	251 - 269 °	259°
Loss on Drying	≤ 1.0%	0.0%
Other Cinchona Alkaloids	Quinidine and Hydroquinidine: ≤ 3.0%	1.5%
	Quinine and Hydroquinine: ≤ 3.0%	0.0%
Sulphated Ash	≤ 0.1%	Conforms
Heavy Metals	≤ 10ppm	Conforms
Chloride	≤ 0.02%	Conforms
Sulphate	≤ 0.05%	Conforms
Assay	99.0 - 101.0 %	99.8%

Specification Version v1.0
Manufacture Date 2013-11-26
Re-Test Date 2029-02-17

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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