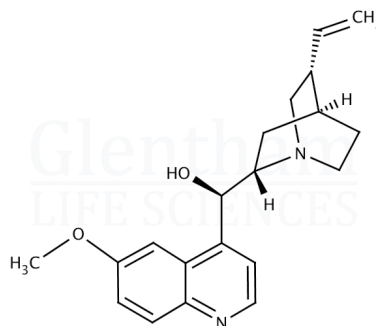


Certificate of Analysis

Product Name Quinine, anhydrous
Glentham Code GE6508
CAS Number 130-95-0
EINECS 205-003-2
MDL Number MFCD00198096
PubChem SID 310279536
Batch Number 448XJQ

Molecular Weight 324.42
Molecular Formula $C_{20}H_{24}N_2O_2$
Storage Temp. +20°C



Property	Specification	Batch 448XJQ
Physical Description	White to off-white powder	White powder
Loss on Drying	≤ 1.0%	0.0%
Related Substances	Dihydroquinine: ≤ 5.0%	4.5%
	Cinchona alkaloids: ≤ 2.0%	0.3%
Sulphated Ash	≤ 0.1%	Conforms
Chloride	≤ 200ppm	Conforms
Sulphate	≤ 500ppm	Conforms
Melting Point	174 - 178 °C	178°C
Heavy Metals	≤ 10ppm	Conforms
Arsenic (As)	≤ 3ppm	Conforms
Zinc (Zn)	≤ 25ppm	Conforms
Assay	≥ 98.5%	99.4%

Specification Version v1.0
Manufacture Date 2013-09-13
Re-Test Date 2019-04-24

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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