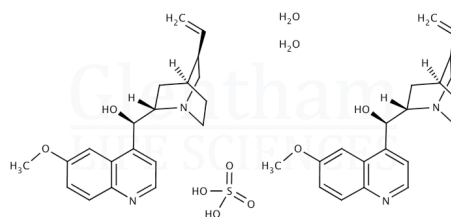


Product Specification

Product Name	Quinine sulfate hydrate
Glentham Code	GE0921
CAS Number	6119-70-6
EINECS	212-359-2
MDL Number	MFCD00150792
Additional CAS	207671-44-1
PubChem SID	310279543
Molecular Weight	391.47
Molecular Formula	$C_{20}H_{24}N_2O_2 \cdot 0.5H_2O_4S \cdot H_2O$
Storage Temp.	+20°C



Property	Specification
Physical Description	White or almost white, crystalline powder or fine, colourless needles
Identification	Identification tests A, B, C, D, E
Appearance of Solution	Clear, and colour \leq GY6
pH (1% solution)	5.7 - 6.6
Specific Optical Rotation	-237 - -245 °
Other Cinchona Alkaloids	Dihydroquinine Sulphate: \leq 10.0% Any impurity eluted before Quinine: \leq 5.0% Any other impurity: \leq 2.5%
Loss on Drying	3.0 - 5.0 %
Sulphated Ash	\leq 0.1%
Heavy Metals	\leq 10ppm
Residual Solvents	Conforms to requirements
Content	99.0 - 101.0 % (alkaloid monosulphates, dried basis)
Pharmacopoeia Specification(s)	Conforms to BP, EP
Specification Version	- v1.0
Date Created	- 2014-06-13

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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