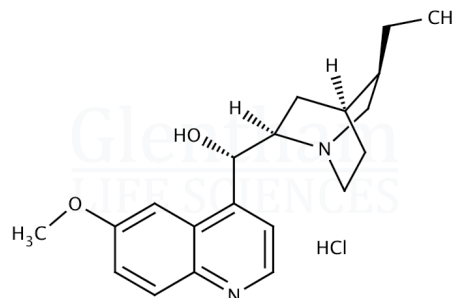


Certificate of Analysis

Product Name	Hydroquinidine hydrochloride
Glentham Code	GK8747
CAS Number	1476-98-8
EINECS	216-024-1
PubChem SID	310274745
Batch Number	627IOW

Molecular Weight	362.89
Molecular Formula	$C_{20}H_{26}N_2O_2 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 627IOW
Physical Description	White to almost white powder	Conforms
Identification	To pass tests	Conforms
Solubility (1% in water)	Clear, colourless solution (may need warming)	Conforms
pH	6.0 - 7.0	6.7
Specific Optical Rotation	+185 - +191 °	+188°
Nickel (Ni)	≤ 2ppm	Conforms
Any Individual Impurity	≤ 1.0% (other cinchona alkaloids)	0.2% max.
Total Impurities	≤ 2.0% (other cinchona alkaloids)	0.4%
Sulphated Ash	≤ 0.1%	Conforms
Loss on Drying	≤ 0.5%	0.1%
Assay	99.0 - 101.0 %	99.9%

Specification Version	v1.0
Manufacture Date	2013-05-06
Re-Test Date	2029-02-28

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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