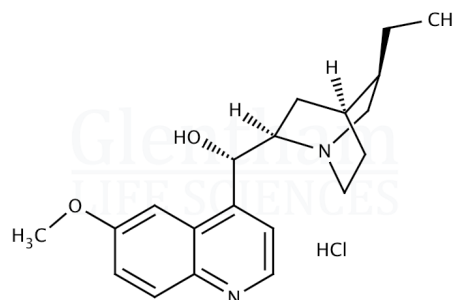


## Certificate of Analysis

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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