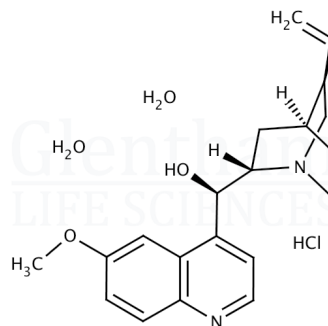


Certificate of Analysis

Product Name	Quinine hydrochloride dihydrate
Glentham Code	GA8217
CAS Number	6119-47-7
EINECS	205-001-1
Numéro MDL	MFCD00078498
CAS supplémentaire	130-89-2
CAS supplémentaire	60-93-5 ($\cdot 2\text{HCl}$)
PubChem SID	310279542
Batch Number	690UFJ

Molecular Weight	396.91
Molecular Formula	$\text{C}_{20}\text{H}_{24}\text{N}_2\text{O}_2 \cdot \text{HCl} \cdot 2\text{H}_2\text{O}$
Storage Temp.	+20°C



Property	Specification	Batch 690UFJ
Physical Description	White or almost white crystalline powder	Almost white crystalline powder
Identification	Identification tests A, B, C, D, E	Conforms
Appearance of Solution	Clear, and colour $\leq$ Y6	Conforms
pH (1% in water)	6.0 - 6.8	6.2
Specific Optical Rotation	-245 - -258 °	-250°
Other Cinchona Alkaloids	Dihydroquinine hydrochloride: $\leq$ 10.0%	5.2%
	Any impurity eluted before quinine: $\leq$ 5.0%	1.6%
	Any Other Impurity: $\leq$ 2.5%	0.0%
Loss on Drying	6.0 - 10.0 %	7.4%
Sulphated Ash	$\leq$ 0.1%	Conforms
Sulphates	$\leq$ 500ppm	Conforms
Barium Test	No turbidity produced	Conforms
Heavy Metals	$\leq$ 10ppm	Conforms
Assay	99.0 - 101.0 %	99.8%
Pharmacopoeia Specification(s)	Conforms to BP, EP	Conforms

Specification Version	v1.0
Manufacture Date	2023-06-30
Re-Test Date	2033-05-28

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.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025