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Certificate of Analysis

Product Name Quinine hydrochloride dihydrate Glentham Code GA8217 **CAS Number** 6119-47-7 **EINECS** 205-001-1 MDL Number MFCD00078498 Additional CAS 130-89-2 Additional CAS 60-93-5 (·2HCI) PubChem SID 310279542 Batch Number 690UFJ Molecular Weight 396.91

Molecular Formula $C_{20}H_{24}N_2O_2 \cdot HCl \cdot 2H_2O$

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 ≤ Y6	Conforms
pH (1% in water)	6.0 - 6.8	6.2
Specific Optical Rotation	-245258 °	-250°
Other Cinchona Alkaloids	Dihydroquinine hydrochloride: ≤ 10.0%	5.2%
	Any impurity eluted before quinine: ≤ 5.0%	1.6%
	Any Other Impurity: ≤ 2.5%	0.0%
Loss on Drying	6.0 - 10.0 %	7.4%
Sulphated Ash	≤ 0.1%	Conforms
Sulphates	≤ 500ppm	Conforms
Barium Test	No turbidity produced	Conforms
Heavy Metals	≤ 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.

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Page 1 of 1 Printed: 2025-05-04 16:59:34