

BUCHLER

Buchler GmbH Postfach 54 13 D-30619 Braunschweig

Buchler GmbH
Chemiefabrik Braunschweig
Hans-Böckler-Straße 3
D-30619 Braunschweig
Telefon (05307) 931-0
Telefax (05307) 931-31

Fagron Services B.V.

Per Auftrag / Your order

BI180350 dd.20.2.18 Item 501612

Unter Auftrag / Our order

5137

Datum / Date

27.02.18

Analysenzertifikat / Certificate of Analysis

Product : Quinine Sulphate

Lot No. 9166

Formula : $(C_{20}H_{21}N_2O_2)_2 \cdot H_2SO_4 \cdot 2H_2O$

CAS - No. 5119-70-6

Manufact. date : 17.08.2017

Expiry date : 16.05.2022

Date of release : 28.08.2017

Tests	Specifications	Results
Identification A, B, C, D, E	to pass tests	conform
Appearance of solution	clear and colour $\leq$ GY 6	conform
pH	pH 5,7 - 6,6	pH 6,3
Loss on drying	3,0 - 5,0 %	4,6 %
Specific optical rotation	-237° to -245°	-242°
Dihydroquinine Sulphate	$\leq$ 10,0 %	6,3 %
Any impurity eluted before quinine	$\leq$ 5,0 %	2,7 %
Any other impurity	$\leq$ 2,5 %	0,0 %
Assay	99,0 - 101,0 %	100,1 %
Sulphated ash	$\leq$ 0,1 %	$<$ 0,1 %
Residual Solvents	meets the pharmacopoeial requirements	conform

Result: the merchandise corresponds to Ph. Eur., 9th Ed., BP 2018
The active ingredients have been manufactured, packaged and analysed according to GMP.

Head of Quality Assurance : Dr. C. von Riesen

Buchler GmbH

This certificate is a computer printout and bears therefore no handwritten signature.

