

ACEF

Ihr Auftrag / Your order

2012 6048

dated 08.11.2012

Unser Auftrag / Our order

2821

Datum / Date

09.11.12

Analysenzertifikat / Certificate of Analysis

Product : Quinine Hydrochloride

Lot No. 7981

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

CAS - No. 6119-47-7

Manufact. date : 03.09.2012

Expiry date : 02.09.2017

Date of release : 11.09.2012

Tests	Specifications	Results
Identification A, B, C, D, E	to pass tests	conform
Clarity and colour of solution	clear and colour $\leq Y 6$	conform
Acidity	pH 6,0 - 6,8	pH 6,2
Loss on drying	6,0 - 10,0 %	7,6 %
Specific optical rotation	-245° to -258°	-251°
Dihydroquinine Hydrochloride	$\leq 10,0$ %	5,1 %
Related substances eluted before Quinine	$\leq 5,0$ %	0,7 %
Any other related substances	$\leq 2,5$ %	0,0 %
Assay	99,0 - 101,0 %	99,9 %
Sulphated ash	$\leq 0,1$ %	< 0,1 %
Barium	no turbidity produced	conform
Sulphate	≤ 500 ppm	< 500 ppm
Heavy metals	≤ 10 ppm	< 10 ppm

Result: the merchandise corresponds to Ph. Eur., 7th Edt., BP 2012

Head of Quality Assurance : Dr. C. von Riesen

Buchler GmbH : G. Reinecke

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

