Annexure A

SIGMA-ALDRICH®

sigma-aldrich.com

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Quinine sulfate salt, meets USP testing

Product Number:	**Q0132**
Lot Number:	**080M1482V**
Brand:	SIAL
CAS Number:	207671-44-1
MDL Number:	MFCD00150792
Formula:	C20H24N2O2 · 0.5H2O4S · H2O
Formula Weight:	391.47 g/mol
Expiration Date:	AUG 2015

Test	Specification	Result
Identity	Pass	Pass
Specific Rotation	-245.000 - -235.000 °	-241.650 °
Water (by Karl Fischer)	4.0 - 5.5 %	4.8 %
Residue on Ignition	≤ 0.1 %	0.0 %
Heavy Metal	≤ 0.001 %	0.000 %
Insoluble Substances Chloroform-Alcohol	≤ 0.1 %	0.0 %
Chromatographic Purity	Pass	Pass
Miscellaneous Supplier Data	≤ 10.0	4.5
Assay (Anhydrous Basis)	99.0 - 101.0 %	99.9 %
Residual Solvents USP 467 Option 1	Meets Requirements	Class 2 Solvents Only, Meets
Expected Solvent	Residual Solvent	Toluene

Rodney Burbach, Manager
Analytical Services
St. Louis, Missouri US

Annexure B

Certificate of Analysis

SIGMA-ALDRICH

Product Name	Quinidine sulfate salt dihydrate
Product Number	Q0875
Product Brand	SIGMA
CAS Number	6591-63-5
Molecular Formula	$C_{40}H_{48}N_4O_4 \cdot H_2O_4S \cdot 2H_2O$
Molecular Weight	782.94

TEST	SPECIFICATION	LOT 060M1212V RESULTS
Appearance (Color)	White to Off-White	Off-White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless to Faint Yellow	Very Faint Yellow
Solubility (Turbidity)	Clear 50 mg/mL, EtOH	Clear
Infrared spectrum	Conforms to Structure	Conforms
Purity (HPLC)	≥80 % Quinidine	86 %
% Dihydroquinidine	≤20 by HPLC	14
Recommended Retest Period	---------- 4 Years	----------
Specification Date:		JUN 2010
Date of QC Release:		JUN 2010
Recommended Retest Date:		JUN 2014
Print Date:		JUN 30 2010

Rodney Burbach, Manager
Quality Control
St. Louis, Missouri USA

Annexure C

SIGMA-ALDRICH

ALDRICH

CertificateofAnalysis

Sigma-Aldrich Production GmbH
CH-9471 Buchs/Schweiz
www.sigma-aldrich.com

Telefon +41 81 755 2511
Telefax +41 81 755 2272
Email: fluka@sial.com

Product Brand	**Aldrich**
PRODUCT-NO	C80407
PRODUCT	CINCHONIDINE 96 %
FORMULA	$C_{19}H_{22}N_2O$
MOLECULAR MASS	294.39
CAS NUMBER	485-71-2
LOT	1412401

Test	Specification	Result
APPEARANCE (COLOR)	WHITE TO OFF-WHITE	OFF-WHITE
APPEARANCE (FORM)	POWDER	POWDER
TITRATION (NT) HCLO4 0.1M	95.5 - 104.5 %	99.7 %
PURITY (HPLC AREA %)	≥ 95.5 %	96.9 %
SPECIFIC ROTATION (20/D)	-109 (± 5) DEGREES	-109.5 DEGREES
CONCENTRATION	C=0.4 % IN ETOH	C=0.4 % IN ETOH
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
QC RELEASE DATE	16/OCT/08	

Edeltraud Schwärzler, Manager
Quality Control
Buchs, Switzerland

Annexure D

SIGMA-ALDRICH®

Certificate of Analysis

SIGMA-ALDRICH

Product Name	Hydroquinine, 98%
Product Number	337714
Product Brand	ALDRICH
CAS Number	522-66-7
Molecular Formula	$C_{20}H_{26}N_2O_2$
Molecular Weight	326.43

TEST	SPECIFICATION	LOT 12113BH RESULTS
APPEARANCE	WHITE TO OFF-WHITE POWDER AND/OR CHUNKS	WHITE POWDER
INFRARED SPECTRUM		CONFORMS TO STRUCTURE.
ELEMENTAL ANALYSIS		CARBON 73.98%
		NITROGEN 8.76%
OPTICAL ROTATION	-148 DEGREES +/- 5 DEGREES (C=1%, ETHANOL)	-145 DEGREES (C=1%, ETOH)
HIGH PRESSURE LIQUID CHROMATOGRAPHY	97.5% (MINIMUM)	99.9%
QUALITY CONTROL		FEBRUARY 2007
ACCEPTANCE DATE		

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

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