Certificate of Analysis



Product Identification

Chemical Structure

Catalog number Compound name

Batch number

Optical rotation

Karl Fisher titration

HB4608 Doxycycline hyclate

Chemical name

(4S,4aR,55,5aR,6R,12aS)-4-(Dimethylamino)- 3,5,10,12,12a-pentahydroxy- 6-methyl- 1,11-dioxo- 1,4,4a,5,5a,6,11,12a-octahydrotetracene- 2-carboxamide hydrochloride hemiethanolate

E2365-1-1

C₂₂H₂₄N₂O₈.HCl.0.5H₂O.0.5C₂H₆O Batch molecular formula

Batch molecular weight 512.94 H OH NMe2

0.5 x CH₃CH₂OH

HCI 0.5 x H₂O

Method

QC requirement

Reverse Phase HPLC shows >94% purity Compound shows a specific rotation ([α]_D) in 10mM

HCI/MeOH between -105° and -120°

KF shows water content between 1.4% and 2.86%

FT-IR spectrum Consistent with structure

Physical appearance Yellow to pale yellow solid **QC Result**

Meets specification: 99.0%

Meets specification: [α]_D = -112 $^{\circ}$ (c=1, 10mM

HCI/MeOH).

Meets specification; 2.0%

Meets specification

Meets specification: Yellow solid

Produced by

Passed by

Signature

Signature

Date

Rock

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.