

CERTIFICATE OF ANALYSIS

02/11/2021

METAPHARMACEUTICAL

N DE LOTE:

0031121

Product: Minocycline Hydrochloride

Batch no.: 05NY01.HQ01301

Retest Date: July 2023

Manufacturing Date : July 2021

Retest Date : July 2023		Manufacturing Date: July 2021		
TEST	REF.	SPECIFICATION		RESULT
Description:	Ph. Eur. Monograph	Yellow powder		Conforms
Crystallinity:	USP, Monograph	The product is crystalline		Conforms
Solubilities:	Ph. Eur. Monograph	Sparingly soluble in water; slightly soluble in ethanol (96%). It dissolves in solutions of alkali hydroxides and carbonates		Conforms
Identification (by IR):	Ph. Eur. Monograph	Conforms to the spectrum of the minocycline hydrochloride CRS (after drying 2 hours, at 100°C; KBr)		Conforms
Chloride:	Ph. Eur. Monograph	Positive to reaction a)		Conforms
Appearance of solution:	Ph. Eur. Monograph	A 0.1 % w/v solution in water is clear		Conforms
Absorbance (at 450 nm):	Ph. Eur. Monograph	Not more than 0.23 (1 cm cell, 0.1% w/v solution in water)		0.15
Light-absorbing impurities:	Ph. Eur. Monograph	Not more than 0.06 at 560 nm (1 % w/v solution in water)		0.03
pH:	Ph. Eur. Monograph	Not less than 3.5 and not more than 4.5 (1 % w/v in water)		4.0
Water:	Ph. Eur. Monograph	Not less than 5.0 % w/w and not more than 8.0 % w/w (200 mg)		7.5 % w/w
Residue on ignition:	Ph. Eur. Monograph	Not more than 0.15 % w/w (1 g; 600°C; constant weight)		0.00 % w/w
Related substances (by HPLC):				ACCOUNT AND TOTAL ST
Ph. Eur. Impurity A	Ph. Eur. Monograph	Not more than 1.2 % w/w		0.8 % w/w
Ph. Eur. Impurity B	Ph. Eur. Monograph	Not more than 0.8 % w/w		Less than 0.05 %
Ph. Eur. Impurity C	Ph. Eur. Monograph	Not more than 0.6 % w/w		0.05 % w/w
Ph. Eur. Impurity E	Ph. Eur. Monograph	Not more than 0.6 % w/w		0.06 % w/w
Ph. Eur. Impurity F	Ph. Eur. Monograph	Not more than 0.5 % w/w		0.37 % w/w
Ph. Eur. Impurity G	Ph. Eur. Monograph	Not more than 0.5 % w/w		0.21 % w/w
Ph. Eur. Impurity H	Ph. Eur. Monograph	Not more than 0.3 % w/w		0.17 % w/w
Impurity with RRT 0.85	Ph. Eur. Monograph	Not more than 0.50 % w/w		0.19 % w/w
Impurity at RRT 0.88	CRLC059 034			
Impurity with RRT 1.13	Ph. Eur. Monograph	Not more than 0.15 % w/w		0.05 % w/w
Any unspecified impurity	Ph. Eur. Monograph	Not more than 0.40 % w/w		0.16 % w/w
Total Impurities	Ph. Eur. Monograph	Not more than 0.10 % w/w Not more than 3.5 % w/w		Less than 0.05 % w/w 2.0 % w/w
Assay (by HPLC):	Ph. Eur. Monograph	Not less than 94.5 % w/w and not more than 102.0 % w/w , calculated with reference to the anhydrous substance		97.7 % w/w
Residual solvents (by GC):			, 5. 555 6556455	
Isopropyl alcohol	CRGC1746_004	Not more than 1000 ppm		280 ppm
Dichloromethane	CRGC1746_006	Not more than 100 ppm		Less than 64 ppr
Hexane	CRGC1746_005	Not more than 290 ppm		Less than 42 ppr
Content of (by ICP):				2000 than 12 pp
The batch number 05NY01. been tested as above and co	HQ01301 of Minocyclin	ne Hydrochloride has		
specifications.	omorns to the latest	Er and novione	Ana Paula Lopes 22	2.Sep.2021 14:53:
opodinoutiono.			Quality Control	
Storage conditions : Wel	I closed and light resist	ant containers; store below	25°C and 60% RH	
The batch was manufacture	d according to Good	Manufacturing	Released by:	
Practices.	- Andrew Committee Committ		Tania Frazao 08.	Oct.2021 14:37:0
			Quality Assurance	
Reference: 104447474, 103	396358	GQSP5133.2 V_NORMAL		

This document has been signed electronically in compliance with 21CFR Part 11.

Printed on: 08.Oct.2021 15:34:13

By: Rui Duarte





Product:

Minocycline Hydrochloride

Batch no.:

05NY01.HQ01301

Retest Date:

July 2023

Manufacturing Date: July 2021

Retest Date : July 20)23	Manufacturing Date: July 2021			
TEST	REF.	SPE	ECIFICATION	RESULT	
Palladium	AA001837_036	Not more than 10 ppm (skip testing to be performed at least every		Conforms	
Rhodium	AA001837_037	5 batches) Not more than 10 ppm (skip 5 batches)	testing to be performed at least every	Conforms	
		-			
The batch number 05NY01.HQ01301 of Minocycline Hydrochloride has been tested as above and conforms to the latest EP and Hovione specifications.			Approved by: Ana Paula Lopes 22 Quality Control	.Sep.2021 14:53:4	
Storage conditions : Well	closed and light resist	ant containers; store below			
The batch was manufactured according to Good Manufacturing Practices.				Oct.2021 14:37:0:	
			Quality Assurance		
Reference: 104447474, 1033	96358		GQSP5133.2 V_NORMAL		

This document has been signed electronically in compliance with 21CFR Part 11.

Printed on: 08.Oct.2021 15:34:13

By: Rui Duarte