

Product : Minocycline Hydrochloride		Manufacturing Date : February 2023	
Batch no.: 05NY01.HQ01364			
Retest Date : February 2025			
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)	3.9
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):			
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	0.10 % w/w
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	0.29 % w/w
Ph. Eur. Impurity G	Ph. Eur. Monograph	Not more than 0.5 % w/w	0.19 % w/w
Ph. Eur. Impurity H	Ph. Eur. Monograph	Not more than 0.3 % w/w	0.08 % w/w
Impurity with RRT 0.85	Ph. Eur. Monograph	Not more than 0.50 % w/w	0.16 % w/w
Impurity at RRT 0.88	CRLC059_034	Not more than 0.15 % w/w	0.05 % w/w
Impurity with RRT 1.13	Ph. Eur. Monograph	Not more than 0.40 % w/w	0.11 % w/w
Any unspecified impurity	Ph. Eur. Monograph	Not more than 0.10 % w/w	Less than 0.05 % w/w
Total Impurities	Ph. Eur. Monograph	Not more than 3.5 % w/w	1.8 % 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):			
Isopropyl alcohol	CRGC1746_004	Not more than 1000 ppm	431 ppm
<p>The batch number 05NY01.HQ01364 of Minocycline Hydrochloride has been tested as above and conforms to the latest EP and Hovione specifications.</p>		<p>Approved by: <u>Antonio Carlos Silva</u> 17.May.2023 17:57:03 Quality Control</p>	
<p>Storage conditions : Well closed and light resistant containers; store below 25°C and 60% RH</p>			
<p>The batch was manufactured according to Good Manufacturing Practices.</p>		<p>Released by: <u>Vera Stepanyk</u> 24.May.2023 11:43:43 Quality Assurance</p>	
<p>Reference: 110659951, 109877184</p>		<p>GQSP5133.3 V_NORMAL</p>	

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Dichloromethane		CRGC1746_006	Not more than 100 ppm	Less than 64 ppm
Hexane		CRGC1746_005	Not more than 290 ppm	Less than 42 ppm
Content of (by ICP):				
Palladium		AA001837_036	Not more than 10 ppm (skip testing to be performed at least every 5 batches)	Conforms
Rhodium		AA001837_037	Not more than 10 ppm (skip testing to be performed at least every 5 batches)	Conforms
Content of (by HPLC-MS) N-Nitroso-7-monomethylamino-6-deoxytetracycline:		CRLC5750_001	Not more than 0.2 ppm	Conforms
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