

QUALITY CONTROL CERTIFICATE OF ANALYSIS

PRODUCT NAME : KETOCONAZOLE EP		BATCH SIZE : 500.00 Kg.	
BATCH NO. : KET / 12107296		A. R. No. : FP/KET/21/0328	
MFG. DATE : JUL - 2021		ANALYSIS DATE : 09 / 08 / 2021	
EXP. DATE : JUN - 2026		CAS No. : 65277-42-1	
SR. NO.	TESTS	SPECIFICATION	RESULTS
1.	Characters		Almost White Powder.
	A. Appearance	White to almost White Powder.	Practically insoluble in Water.
	B. Solubility	Practically insoluble in Water. Freely soluble in Methylene Chloride. Soluble in Methanol. Sparingly soluble in ethanol (96 percent).	Freely soluble in Methylene Chloride. Soluble in Methanol. Sparingly soluble in ethanol (96 percent).
2.	Identification		150.1°C
	A. Melting Point	148.0° to 152.0°C	
	B. IR Spectrum	The Infrared absorption spectrum of Sample concordant with Infrared absorption spectrum of ketoconazole WS.	The Infrared absorption spectrum of Sample concordant with Infrared absorption spectrum of ketoconazole WS.
	C. Thin Layer Chromatography	The Principal spot in the chromatogram obtained with the test solution is similar in position, colour & size to the principle spot in the chromatogram obtained with the reference solution (a).	The Principal spot in the chromatogram obtained with the test solution is similar in position, colour & size to the principle spot in the chromatogram obtained with the reference solution (a).
	D. Reaction of Chloride	The solution gives reaction (a) of chlorides.	Complies
3.	Appearance of solution	Solution S should be Clear and not more intensely coloured than Reference Solution BY4 (Method II)	Solution is Clear and not more intensely coloured than Reference Solution BY4.
4.	Optical Rotation	- 0.10° to + 0.10° determined on solution S	(+) 0.000°
5.	Related Substances By HPLC	Impurity D: Maximum 0.2 percent. Unspecified Impurities : for each impurity, Maximum 0.10 percent Total Impurity : Not More Than 0.3 percent.	0.160 % 0.061 % 0.285 %
6.	Loss on Drying	Maximum 0.5 percent determined on 1g by drying in an oven at 105°C .	0.22 %
7.	Sulfated Ash	Maximum 0.1 percent determined on 1g .	0.056 %
8.	Assay by (On Dried Basis)	99.0 percent to 101.0 percent	100.53 %
9*	Residual solvent ➤ Methanol ➤ Acetone	Not More Than 3000 ppm Not More Than 5000 ppm	159.63 ppm 734.38 ppm

Remark – The above material Complies as per EP 10.3 specifications.
*Additional Tests as per party requirement.

Prepared by	Checked by	Approved by
QC Officer <i>Redm</i> 24/08/2021	QC Executive <i>[Signature]</i> 24/08/2021	QC Head <i>[Signature]</i> 24/08/2021
Date	Date	Date