



## KUMAR ORGANIC PRODUCTS LIMITED

## CERTIFICATE OF ANALYSIS

Name of the Product	MINOXIDIL	Batch No.	K007.1/19/04/083
Analytical report no.	FP/K007/SB/19/083	Mfg. Date	APRIL -2019
Date of analysis	02.05.2019	Exp. Date	MARCH-2023
Qty being dispatched	Typical COA	Mfg.Licence No.	KTK/25/624/2013
CEP No.	RO-CEV 2013-310 REV 00		

Sl No.	TEST	SPECIFICATION	RESULT
1	Appearance	White or almost white, crystalline powder	Almost white, crystalline powder
2	Solubility	Slightly soluble in water, soluble in methanol and in propylene glycol.	Complies
3	Identification By IR Absorption spectrophotometry	The IR absorption spectrum of the sample should be concordant with the IR absorption spectrum of Minoxidil working standard	Complies
4	Related substances		
	A. Related substances by GC-HS a. Piperidine	Maximum 1000 ppm	< 1000 ppm
	B. Related substances by HPLC a. N-oxide b. Chlorodap c. DPP d. Single largest unknown impurity e. Total Impurities	Maximum 0.10% Maximum 0.10% Maximum 0.10% Maximum 0.10% Maximum 0.30%	Below Detection Limit Below Detection Limit Below Detection Limit 0.03% 0.06%
5.	Purity By HPLC	Not Less than 99.70%	99.94%
6.	Loss on drying	Maximum 0.3%	0.09%
7.	Clarity, Colour of the solution	Clear, Shall not be intense than Y6EP	Complies
8.	Sulfated ash	Maximum 0.1%	0.03%
9.	Assay by potentiometry (on dried basis)	99.0% to 101.0%	99.8%
10.	Residual solvents by GC-HS 1. Methanol	Not more than 3000 ppm	< 3000 ppm

Remarks: The above sample complies with the EP 9 & USP 42 standards.

Compiled by

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27/05/2020

QC Executive

Verified by

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27/05/2020

QC Manager

Approved by

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