



KUMAR ORGANIC PRODUCTS LIMITED

CERTIFICATE OF ANALYSIS

Name of the Product	MINOXIDIL EP	Batch No.	K007.1/19/06/108
Analytical report no.	FP/K007/SB/19/119	Mfg. Date	JUNE -2019
Date of analysis	15.06.2019	Exp. Date	MAY -2023
Qty being dispatched	Reference Sample	Mfg.Licence No.	KTK/25/624/2013

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. Impurity E	Maximum 0.15%	Below Detection Limit
	b. Impurity B	Maximum 0.15%	Below Detection Limit
	c. Single largest unknown impurity	Maximum 0.10%	0.02%
	d.Total Impurities	Maximum 0.3%	0.03%
5	Loss on drying	Maximum 0.5%	0.08%
6	Sulfated ash	Maximum 0.1%	0.05%
7	Assay by potentiometry (on dried basis)	99.0% to 101.0%	99.6%
8	Residual solvents by GC-HS 1. Methanol	Not more than 3000 ppm	< 3000 ppm

Remarks: The above sample complies with the BP/ EP 9.0 standards.

Compiled by

QC Executive

Verified by

QC Manager

Approved by

QA Manager

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