



KUMAR ORGANIC PRODUCTS LIMITED

CERTIFICATE OF ANALYSIS

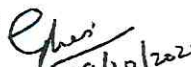
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|-----------------------|---------------------|-----------------|------------------|
| Name of the Product | MINOXIDIL EP | Batch No. | K007.2/24/09/375 |
| Analytical report no. | FP/K007/SB/24/413 | Mfg. Date | SEPTEMBER -2024 |
| Date of analysis | 25.09.2024 | Exp. Date | AUGUST -2029 |
| Qty being dispatched | 150.0Kg | Mfg.Licence No. | KTK/25/624/2013 |
| CEP No. | CEP 2013-310-Rev 02 | | |

| Sl No. | TEST | SPECIFICATION | RESULT |
|--------|--|--|--------------------------|
| 1 | Appearance | White or almost white, crystalline powder | 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 on Minoxidil working standard. | Complies |
| 4 | Impurities | | |
| A. | Sulphated ash | Maximum 0.1% | 0.02% |
| B. | Related substances by HPLC | | |
| | B. Related substances by HPLC | | |
| | a. Impurity E | Maximum 0.2% | Not detected |
| | b. Impurity B | Maximum 0.15% | Not detected |
| | c. Single largest unknown impurity | Maximum 0.10% | 0.02% |
| | d. Total Impurities | Maximum 0.3% | 0.06% |
| C. | Additional Test | | |
| | Piperidine by GC-HS | Not more than 1000 ppm | < 1000 ppm |
| 5 | Loss on drying | Maximum 0.5% | 0.11% |
| 6 | Assay by Potentiometry (on dried basis) | 99.0% to 101.0% $C_9H_{15}N_5O$ Calculated on dried substance | 100.1% |
| 7 | Residual solvents by GC-HS I. Methanol | Not more than 3000 ppm | < 3000 ppm |

Remarks: The above sample complies with the EP 11.0 standard.

Compiled by 
QC Executive 19/10/2024

Verified by 
QC Manager 19/10/2024

Approved by 
QA Manager 19/10/2024

Kumar Organic Products Limited, Plot No.60 & 65, 62 & 64, Road No. 3 & 5, Jigani Industrial Area, Jigani, Anekal Taluk, Bangalore, India-560105

METAPHARMACEUTICAL

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25/10/2025

