



## KUMAR ORGANIC PRODUCTS LIMITED

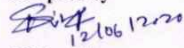
## CERTIFICATE OF ANALYSIS

<b>Name of the Product</b>	<b>MINOXIDIL</b>	<b>Batch No.</b>	<b>K007.1/20/06/118</b>
<b>AR. No.</b>	<b>FP/K007/SB/20/133</b>	<b>Mfg. Month</b>	<b>JUNE -2020</b>
<b>Date of analysis</b>	<b>12.06.2020</b>	<b>Exp. Month</b>	<b>MAY- 2024</b>
<b>Qty being dispatched</b>	<b>100.0 Kg</b>	<b>Mfg.Licence No.</b>	<b>KTK/25/624/2013</b>
<b>Sl No.</b>	<b>TEST</b>	<b>SPECIFICATION</b>	<b>RESULTS</b>
1	Description	White to off-white crystalline powder. Melts between 248 °C to 268 °C, with decomposition.	Off White crystalline powder 252.6 -253.5°C
2	Solubility	Soluble in alcohol and in propylene glycol, sparingly soluble in methanol, slightly soluble in water. Practically insoluble in chloroform, acetone, ethyl acetate and in hexane	Complies
3	Identification By IR Absorption spectrum	The infrared absorption spectrum of the sample should be concordant with the IR absorption spectrum of Minoxidil working standard	Complies
4	Assay by HPLC ( on dried basis)	NLT 97.0% and NMT 103.0%	99.9%
5	Impurities		
a.	Residue on ignition	NMT 0.5%	0.03%
b.	Organic Impurities by HPLC Total Impurities	NMT 1.5%	0.1%
6	Loss on drying	NMT 0.5%	0.09%
7	Residual solvents by GC-HS Methanol Piperidine	Not more than 500 ppm Not more than 1000 ppm	< 500 ppm < 1000 ppm
8	Particle size *	D90 < 150 Micron (For Information)	< 150 Micron

Remarks: The above sample complies with the USP 42 standard.

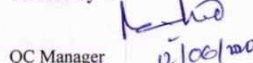
\* As per customer request

Compiled by



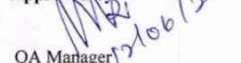
QC Executive

Verified by



QC Manager

Approved by



QA Manager