Macsen Laboratories

Manufacturer of Fine Chemicals & Pharmaceuticals

SPECIFICATION SHEET

Name of product : Minoxidil IP

CAS No. : 38304-91-5

Molecular weight : 209.3 g/mol

SR.NO	CRITERIA	SPECIFICATION
1.	**APPEARANCE**	A white or almost white, crystalline powder.
2.	**SOLUBILITY**	Soluble in alcohol and in propylene glycol; sparingly soluble in methanol (0.1g in 10 mL); slightly soluble in water (0.1 g in 10 mL); practically insoluble in chloroform, in acetone, in ethyl acetate, and in hexane
3.	**IDENTIFICATION**	
	Test A: By IR	The infrared spectrum of test sample should match with working standard / reference standard
	Test B: By UV	**Solution B**: The absorption spectrum of Solution B shows maxima at about 230 nm and 281 nm, with absorbance of 0.406–0.448 at 230 nm and 0.424–0.468 at 281 nm. **Solution C:** The absorption spectrum of Solution C shows maxima at about 230 nm, 262 nm and 288 nm, with absorbance of 0.610–0.674 at 230 nm, 0.194–0.214 at 262 nm and 0.222–0.242 at 288 nm.
	Test C: By TLC	The principal spot in the chromatogram obtained with the test solution corresponds in position, colour and size to the principal spot obtained with the reference solution.
	Test D: Chemical Test (Cupric Sulphate Test)	A green colour develops on addition of cupric sulphate solution. On subsequent addition of 2 M hydrochloric acid, the solution becomes greenish-yellow.
7	**ASSAY (ON DRIED BASIS)**	NLT 98.5% & NMT 101.0%
8.	**HEAVY METALS**	NMT 20 ppm

+91-294 2413722, 7296866111 info@macsenlab.com www.macsenlab.com

303, 3rd Floor, Shivam Residency, Durga Nursery Road, Udaipur, 313001, Rajasthan, India.

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9.	**SULPHATED ASH**	NMT 0.1%
10.	**LOSS ON DRYING**	NMT 0.5%
11.	**RELATED SUBSTANCE BY HPLC**	The sum of the areas of any secondary peaks in not more than 1.5 times the area of the principal peak

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