

George E, Mathews MM. Formulation and evaluation of topical gel containing hair growth promoters for the treatment of androgenic alopecia. *Bull. Pharm. Res.* 2014;4(1):1-8.

Abstract: The objective of present work was to develop and evaluate a Minoxidil emulgel and compare its properties with Minoxidil gels. When gel and emulsion are used in combination the dosage form is referred as Emulgel. For preparing the emulgel, first, Minoxidil was dissolved in solvent system comprising water and propylene glycol in ratio 35:15 with liquid paraffin as oil phase. The prepared w/o emulsion was then mixed with carbopol gel solution in 1:1 ratio and finally neutralized with triethanolamine to form emulgel. Total eight formulations were prepared of which four were gels and other four were Emulgels. The gels were evaluated for physicochemical parameters, *in vitro* drug release and *ex vivo* permeation study. Among developed formulations, F1 showed 56.30% cumulative release after 8 h, whereas F6 showed 72.31% release after 8 h.

Key words: Minoxidil, Emulgel, Spreadability, Carbopol 934, Alopecia.

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