

DEVELOPMENT AND ASSESSMENT OF *ADENIUM OBESUM* FLOWER EXTRACT-BASED OINTMENT FOR ANTIFUNGAL ACTIVITY

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ABSTRACT

This study has been carried out on the formulation development and evaluation of ointment of flower extract of *Adenium obesum* for its anti-fungal activity. The extraction was done using ethyl alcohol. Six different ointment formulations were prepared and assessed for physical appearance, drug contents, viscosity, pH, spreadability, stability, drug release and *in vitro* drug diffusion. All formulations showed excellent stability as their drug contents (96.26 - 97.31 %), viscosity (524.25 - 529.23 cP), pH (6.2 - 6.6), spreadability (12 - 14) and *in vitro* drug diffusion (82.34 - 84.84 %) were found within the range. In long term stability study, it was found that the formulations F3, F4, F5 & F6 were most prominent formulations. The antifungal activity of formulations was found to be in a dose dependent manner. Therefore, we concluded that the formulation might be utilized in the management of fungal infections i.e., dermatitis, pruritis, etc.