

Title : Formulation of Dermatological preparations
from extract of Impatiens balsamina Leaves

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Abstract

Purified substance extracted from Impatiens basamina Leaves 2-methoxy -1, 4- naphthoquinone, is quite stable in non - water ointment base. And it will be stable in O/W emulsion cream base if 0.01 % citric acid is used as a stabilizer. The 0.5 % concentration of this purified substance can resist the growth of Trichophyton mentagrophytes, T. rubrum, Microsporum gyhseum, Epidermophyton floccosum and Candida albicans better than the 0.25 % concentration, but compares to the 0.75 % concentration it shows no significant difference. The in vitro test relveals that the release of this purified substance from cream base is significantly higher than from the other ointment bases.

This purified substance can also prepare in the form of clear solution, such as, tincture preparation using alcohol as cosolvent. The concentration used is 0.25 % which is lower than that used in cream preparation. But it is not stable in liquid preparation so it should be freshly prepared before use and should be kept in the refrigerator. It is best stable in cream preparation but the efficiency slightly decrease at 8 months.