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Analytical Detection of Triterpenoids Present in the Hydroalcoholic Extract of *Ipomoea Aquatica* Forssk. in South India

Sasikala M^{*1} and Sundaraganapathy R²

¹Research Scholar, Faculty of Pharmacy, Karpagam University, Karpagam Academy of Higher Education, Coimbatore – 641 021, Tamil Nadu, India

²Dean, Faculty of Pharmacy, Karpagam University, Karpagam Academy of Higher Education, Coimbatore – 641 021, Tamil Nadu, India

Abstract:Introduction: Qualitative analysis will help in the detection of phytoconstituents present in the herbal source accurately. The preliminary phytochemical screening and the thin layer chromatographic analysis are found more simple and sensitive and selective techniques in this way. **Aim and Objective:** The research was aimed to reveal the secondary metabolites like triterpenoids by using chemical tests and TLC methods. **Methods:** The tests for detecting triterpenoids were using Salkowski's reagent and Sulphur powder tests. The TLC parameters were set silica gel G as adsorbent, Toluene: Ethyl acetate in the ratio of 9.3:0.7v/v as mobile phase, UV light of longer wavelength at 365nm as detection wavelength and R_f value as qualitative respect. **Results and Discussion:** The phytochemical tests were shown positive results for triterpenoids. The TLC analysis stated that the presence of nearly five different fluorescence spots with R_f values of 0.06, 0.11, 0.23, 0.36 and 0.59 respectively. **Conclusion:** Hence, revealing new class of lipophilic components will assist to improve herbal drug products in the global market. This study could be used in research laboratories for detecting similar type of compounds using TLC analysis. Definitely this will give the good for opportunity for isolating out many therapeutically acting compounds. **Key words:** Salkowski, lipophilic, triterpenoids, R_f value, water spinach, TLC.

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