



Pharmacognostic, Phytochemical, Pharmacological Investigation & Prepration of Herbal Gel of *Tridax Procumbence* Extracts

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ABSTRACT

The medicinal plant, *Tridax procumbence* Linn. belongs to the family Compositae, it was found to be effective against various diseases. The present study undergone pharmacognostic, phytochemical, pharmacological investigation of stem & leaves hydro alcoholic extracts. In phytochemical screening we have found extract contains flavonoids, saponin, tannins, alkaloids etc. An attempt was made to separate the individual components by using Thin Layer Chromatography. We have also investigated both of these extracts for antimicrobial susceptibility against two gram positive & two gram negative bacterial strains. We have prepared 5µgm/ml, 50µgm/ml, 100µgm/ml & 200µgm/ml dilutions for the activity. We have found satisfactory results than standard drug used. Both MIC & Zone of Inhibition were determined. The samples were also sent for the anticancer activity to TATA Memorial center. Inspiring from the present study & previous literature we have also prepared gel formulation of the extracts of stem & leaves for wound healing. Gel formulation found to have better wound healing properties in various concentrations. From present study we have concluded that there is further very much scope to do work on this plant extract to separate individual chemical components.

KEYWORDS: *Tridax procumbence*; Phytochemical screening; Anticancer; Antimicrobial; Herbal Gel

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