(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/05/2022

(21) Application No.202211028110 A
(43) Publication Date : 20/05/2022

(54) Title of the invention : DEVELOPMENT OF HERBAL FORMULATION OF ACHYRANTHES ASPERA FOR WOUND HEALING AND TREATMENT OF INFLAMMATION

(51) International classification :A61K0036210000, A61K0031405000, A61K0036870000, A61K0031345000, A61P0029000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the preparation of methanol leaf extract of Achyranthes aspera and to evaluate its in-vivo wound healing and anti- inflammatory activities. The 80% methanol leaf extract of A. aspera was fractionated with chloroform, n-butanol and water. Wound healing and anti-inflammatory activities were evaluated using excision and incision wound models, rat paw edema and cotton pellet-induced granuloma models, respectively. For wound healing activity, fractions were evaluated at 5 and 10% ointments. The positive control groups were treated with nitrofurazone 0.2% ointment. Simple ointment treated for excision wound model and untreated for incision wound model rats were assigned as negative controls. For anti-inflammatory activity, fractions were evaluated at 100, 200 and 400mg/kg. Positive control groups were treated with indomethacin 10mg/kg for both rat paw edema and cotton pellet-induced granuloma models. The 10% w/w chloroform fraction ointment revealed high percentage of wound contraction and reduced period of epithelialization.
No. of Pages : 21 No. of Claims : 4