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(54) Title of the invention : WOUND HEALING TOPICAL OINTMENT FORMULATION BASED ON ESSENTIAL OIL OBTAINED FROM KAEMPFERIA GALANGA L.

<p>(51) International classification :A61K0036906000, A61K0009000000, A61K0009060000, A61P0017020000, A61K0008370000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Vanshika Sharma</b> Address of Applicant :Dept of Biotechnology, Royal School of Biosciences, Assam Royal Global University NH-37, Betkuchi, Guwahati -781035, Assam, India Betkuchi, Guwahati ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Vanshika Sharma</b> Address of Applicant :Dept of Biotechnology, Royal School of Biosciences, Assam Royal Global University NH-37, Betkuchi, Guwahati -781035, Assam, India Betkuchi, Guwahati ----- -----</p> <p><b>2)Dr. Ranjan Dutta Kalita</b> Address of Applicant :Department of Biotechnology, Royal School of Biological Sciences, Royal Global University, Betkuchi, Opp- Tirupati Balaji Temple, Guwahati, Assam- 781035 India Betkuchi, Guwahati ----- -----</p> <p><b>3)Prof. (Dr.) Bipul Nath</b> Address of Applicant :Royal School of Pharmacy, Royal Global University, Betkuchi, Opp- Tirupati Balaji Temple, Guwahati, Assam- 781035 India Betkuchi, Guwahati ----- -----</p> <p><b>4)Dr. Dipankar Saha</b> Address of Applicant :Department of Pharmacology, Girijananda Chowdhury Institute of Management and Technology, Hatkhowpara, Azara Guwahati, Assam- 781017 India Hatkhowpara, Azara Guwahati ----- -----</p>
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(57) Abstract :

The present invention relates to an essential oil based topical ointment formulation for wound healing. The essential oil is extracted from Kaempferia galanga L. The formulation of ointment base was prepared using: white petrolatum (C10H15N5O3): 25%, stearyl alcohol, 1-octadecanol (CH3(CH2)16CH2OH): 25%, Propylene glycol, Propane-1,2-diol (C3H8O2):12%, Sodium lauryl sulfate (NaC12H25SO4): 1% and Water: 37% (w/w) in which 4% and 10% concentration of essential oil was simultaneously added. The wound healing activity of the topical cream prepared from essential oil of respective concentration, 4% and 10% w/w, was evaluated using a circular excision wound model in Wistar Albino rats in which the open wounds were infected with Staphylococcus aureus. The rate of contraction analysis revealed the positive correlation as observed in the wound healing experiments. Histopathological studies reported herbal formulation (10% w/w), produced a skin with significant healing property.

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