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पेटेंट कार्यालय का एक प्रकाशन
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(54) Title of the invention : ASSESSMENT OF IMMUNOMODULATORY ACTIVITY OF CHLOROFORM AND AQUEOUS EXTRACTS OF ARTOCARPUS LAKOOCHA LEAVES IN EXPERIMENTAL-RATS

(51) International classification	:A61K 127/00, A61K 36/185, A61K 36/00, A61K 36/48, G01N 33/50	(71)Name of Applicant : 1)Mr. Munna Singh Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University, Lodhipur Rajput, Moradabad, Uttar Pradesh, India – 244102 Uttar Pradesh India 2)Mrs. Anshika Rastogi 3)Dr. Sushil Kumar 4)Mr. Sateesh Kumar 5)Mr. Mohammad Kasim 6)Mr. Pavan Kausiq 7)Mr. Saiyad Arsh Zia
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(57) Abstract :

The present invention relates to immunomodulatory compositions derived from chloroform and aqueous leaf extracts of *Artocarpus lakoocha* Roxb. (Moraceae), prepared by Soxhlet extraction and maceration. The chloroform extract (3.1 percent w/w) and aqueous extract (4.42 percent w/w) were phytochemically characterized, confirming alkaloids, flavonoids, tannins, terpenoids, and steroids. Immunomodulatory activity was evaluated in Wistar albino rats using a delayed-type hypersensitivity model with sheep red blood cells at 100 mg/kg for nineteen days. Both extracts significantly increased leukocyte count, lymphocyte percentage, serum protein levels, hypersensitivity response, and spleen index compared to control, with no acute toxicity observed. The aqueous extract showed superior activity comparable to standard treatment. The invention provides a safe, plant-based immunomodulatory agent with potential application in immune-deficiency conditions.

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