

पेटेंट कार्यालय  
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(57) Abstract :

The present invention relates to a method involving the extraction and application of Nigella sativa seed extract in an arthritic model. The seeds were extracted using ethanol, and the resulting extract was subjected to phytochemical screening, confirming the presence of bioactive compounds such as flavonoids, terpenoids, saponins, and tannins. Arthritis was induced in rats using Complete Freund's Adjuvant (CFA), followed by oral administration of the extract over a 21-day period. Progression of arthritic symptoms was monitored through physical observation and radiological imaging. The study demonstrated that Nigella sativa extract significantly reduced joint inflammation and preserved joint integrity without observable toxicity. The method provides a reproducible protocol for preparing a plant-based formulation with potential utility in arthritic conditions, supporting the traditional use of Nigella sativa with modern scientific validation.

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