

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411067405 A

(19) INDIA

(22) Date of filing of Application :06/09/2024

(43) Publication Date : 27/09/2024

(54) Title of the invention : A METHOD FOR DEVELOPMENT AND EVALUATION OF COLCHICINE EUTECTOGEL FOR GOUT DISEASE

(51) International classification :A61P43/00, A61K9/06, A61K47/00,
A61K31/165
(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

(71)Name of Applicant :

1)ANIL JINDAL

Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF PHARMACEUTICAL AND HEALTH SCIENCES, CAREER POINT UNIVERSITY, HIMACHAL PRADESH, INDIA -----

2)DR. ANJANA DEVI

3)RISHAB BHANOT

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)ANIL JINDAL

Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF PHARMACEUTICAL AND HEALTH SCIENCES, CAREER POINT UNIVERSITY, HIMACHAL PRADESH, INDIA -----

2)DR. ANJANA DEVI

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICAL AND HEALTH SCIENCES, CAREER POINT UNIVERSITY, HIMACHAL PRADESH, INDIA -----

3)RISHAB BHANOT

Address of Applicant :ASSISTANT PROFESSOR, SCHOOL OF PHARMACY, INDUS INTERNATIONAL UNIVERSITY, DISTRICT-UNA, HIMACHAL PRADESH -----

(57) Abstract :

Disclosed herein is a method for development and evaluation of colchicine eutectogel for gout disease (100) comprises identifying and selecting colchicine as the active pharmaceutical ingredient (102) for the treatment of gout disease. The method includes formulating a eutectic mixture by combining colchicine (104) with one or more suitable excipients selected from the group consisting of sugars, alcohols, or organic acids. The method also includes incorporating the prepared eutectic mixture into a gel base (106). The method also includes evaluating the physical and chemical properties of the eutectogel (108). The method also includes conducting an in-vitro release study (110) to assess the drug release profile of colchicine from the eutectogel. The method also includes performing preclinical and/or clinical evaluations of the colchicine eutectogel (112) to assess its therapeutic efficacy in the treatment of gout disease.

No. of Pages : 23 No. of Claims : 10