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(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.

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