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Patent Search

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Abstract:

A aqueous topical solution composition of pharmaceutically suitable salt of diclofenac is disclosed. An aqueous topical solution composition comprises therapeutical amount of pharmaceutically acceptable salt of diclofenac, solid solublizer, humectants, anti-oxidants and a process for preparing the same.

Complete Specification

Claims:1. A pharmaceutical formulation comprising of diclofenac and its pharmaceutically acceptable salts, solubilizers, humeactant and antioxidant for topical application.

- The pharmaceutical formulation as per claim 1, wherein diclofenac salt is preferably sodium and diethylamine salt in concentration range of 1 - 10 % w/v
- The pharmaceutical formulation as per claim1, wherein first solublizers is caffeine in concentration 10 % w/v.
- The pharmaceutical formulation as per claim1, wherein second solublizers is niacinamide in the concentration range of 10 - 20 % w/v.
- The pharmaceutical formulation as per claim1, wherein humeactant is preferably glycerin and or propylene glycol in concentration of 5 - 10 % w/v
- The pharmaceutical formulation as per claim1, wherein antioxidant is sodium metabisulphate in concentration range of 0.01 - 1 % w/v.
- The topical pharmaceutical formulation as claimed in Claim 1, wherein said formulation is in the form of spray and roll-on lotion.

, Description:Field of Invention:

The present invention is related to a process for preparing diclofenac sodium aqueous solution in high concentration which can be used topically to treat osteoarthritis knee and other inflammatory, painful conditions. Particularly invention relates to stable, high concentration topical solution of diclofenac sodium meant for external application and furthermore invention disclose novel process for solubility enhancement of diclofenac sodium.

Background of invention:

Diclofenac sodium is a drug of first choice as NSAID's in treatment of osteoarthritis due to its less dose and lesser side effects as compare to other drugs. Diclofenac sodium pharmaceutically acceptable salts and other NSAIDs produce their anti-inflammatory analgesic action through inhibition of prostaglandin synthesis. Diclofenac is a

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