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Patent Search

Invention Title	"A NOVEL BIOPOLYMER FROM COELOGYNE OVALIS PETIOLES AND ITS PHARMACEUTICAL APPLICATIONS"
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Abstract:

Current invention explores the process for isolating a biomaterial from the petioles of Coelogyne ovalis. The biomaterial was isolated by the addition of optimized quantity non solvent propanone in to the aqueous extract of the Coelogyne ovalis petioles and subjected for refrigeration in order to recover the biomaterial. The polymeric nature biomaterial was confirmed by its physicochemical properties and spectral analysis like IR, NMR, Mass, SEM and DSC.The biopolymer showed its inbuilt filmability, gelability suspendability and retardability which were confirmed by suitably formulating stable formulations. The bioadhesive films loaded with emtricitabine showed significant folc endurance (370±3.5) and % swelling index (35.33±0.00). Formulated emtricitabine loaded bioadhesive films showed in-vitro drug release performance over an extended pe 24 hours. t50% and t90% values for the drug release were found in the range of 1.4 to 12 hours and 2.6 to more than 24 hours respectively Coelogyne ovalis biopolymer ca used as pharmaceutical excipient due to its inertness and inbuilt properties of designing drug loaded bioadhesive films for trans-nabhi drug delivery, drug loaded biogels ; various other drug loaded dosage forms.

Complete Specification

COMPLETE SPECIFICATIONS

Back Ground of Invention

Biopolymers are polymeric biomolecules obtained from the living sources. Biopolymers may be poly nucleotides, polypeptides or polysaccharides. Biopolymers in contrast to synthetic polymers are known to have well defined structure and are biodegradable or compostable. Biopolymers are a potential excipient in drug delivery system due to their inertness and biodegradable nature. Due to their biological origin they have good compatibility and reduced toxicological properties.

Biofilm former was isolated from petioles of Coelogyne ovalis. Coelogyneovalis belongs to familyorchidaceae and commonly known as Oval Coelogyne, Coelogyne decora, Coelogyne longiciliata, Pleione fuliginosa etc. Coelogyne ovalis is a wildy grown orchid found in Himalayas, from Uttarakhand, at altitudes of 1300-1700 m.Coelogyne ovalis has 2, 7-Dihydroxy-3, 4, 6-trimethoxy-9, 10-Dihydrophenanthrene as chemical constituents, some phenolic constituents, bibenzyle 3'-O-methylbatatasin III and sterols. The pseudobulbs of the plant contain a translucent and viscous liquid which

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