

Home (<http://ipindia.nic.in/index.htm>) About Us (<http://ipindia.nic.in/about-us.htm>) Who's Who (<http://ipindia.nic.in/whos-who-page.htm>)
 Policy & Programs (<http://ipindia.nic.in/policy-pages.htm>) Achievements (<http://ipindia.nic.in/achievements-page.htm>)
 RTI (<http://ipindia.nic.in/right-to-information.htm>) Feedback (<https://ipindiaonline.gov.in/feedback>) Sitemap (<http://ipindia.nic.in/itemap.htm>)
 Contact Us (<http://ipindia.nic.in/contact-us.htm>) Help Line (<http://ipindia.nic.in/helpline-page.htm>)

[Skip to Main Content](#) [Screen Reader Access \(screen-reader-access.htm\)](#)



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/inc>)

Patent Search

Invention Title	SMART BIO-PENETRANT FROM ROSA CENTIFOLIA FOR TRANSUNGUAL DRUG DELIVERY OF TERBINAFINE AND ITS PHARMACEUTICAL APPLIC
Publication Number	09/2017
Publication Date	03/03/2017
Publication Type	INA
Application Number	2752/DEL/2015
Application Filing Date	02/09/2015
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHARMACEUTICALS
Classification (IPC)	A61K

Inventor

Name	Address	Country	Nationality
(DR.) N.V.SATHEESH MADHAV	DIT UNIVERSITY, MUSSOORIE DIVERSION ROAD, DEHRADUN, UTTARAKHAND-248009	India	India

Applicant

Name	Address	Country	Nationality
(DR.) N.V.SATHEESH MADHAV	DIT UNIVERSITY, MUSSOORIE DIVERSION ROAD, DEHRADUN, UTTARAKHAND-248009	India	India

Abstract:

The invention explains a method for isolation of bio-penetrant from the petals of Rosa centifolia for enhancement of drug permeation through nail. The bio-penetrant was isolated from petals of Rosa centifolia and by simplified economic process. The bio-penetrant was subjected to its characterization by spectral studies and its physico-chemical properties. This invention also explains methods for preparing layers loaded with antifungal agent, bio-penetrant and other coprocessing agent for transungual delivery. The formulation was made by incorporating biopenetrant in various concentration ranging from (0.5-50%) to the polymeric weight and layers were formulated. The layers containing bio-penetrant showed significant drug permeation pattern through nail.

Complete Specification

BACKGROUND OF INVENTION:

The present invention attributes that a novelistic approach for treating nail diseases by topical application i.e.; via transungual route. This is achieved by making Terbinafine loaded bioadhesive layers using a bio-penetrant isolated from Rosa centifolia. The biomaterial showed its property as a penetration enhancer. The same was proved scientifically by suitably designing dosage using model drug.

Terbinafine was significantly delivered in to the nails. by formulating bioadhesive layers loaded with Terbinafine. Then dosage was applied on nails; The bio penetrant thus imparts efficient drug permeation that provides increased permeation of drug and improves the therapeutic effects of the formulation.

Transungual drug delivery has always remained one of the most challenging task for pharmaceutical scientists. Topical delivery is the most desired therapy due to relatively less severe side effects, better patient compliance particularly in the case of paediatric and geriatric patients and reduced treatment cost. Topical monotherapy is considered "less successful" in treating onychomycosis due to poor trans-nail bioavailability of drugs. The major reasons for

[View Application Status](#)



Terms & conditions (<http://ipindia.gov.in/terms-conditions.htm>) Privacy Policy (<http://ipindia.gov.in/privacy-policy.htm>)
Copyright (<http://ipindia.gov.in/copyright.htm>) Hyperlinking Policy (<http://ipindia.gov.in/hyperlinking-policy.htm>)
Accessibility (<http://ipindia.gov.in/accessibility.htm>) Archive (<http://ipindia.gov.in/archive.htm>) Contact Us (<http://ipindia.gov.in/contact-us.htm>)
Help (<http://ipindia.gov.in/help.htm>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019