

Published Patent Details 2023-2024

Sr. No	Name of Faculty	Name of Authors	Title	Publication	Date of / Grant/ Publication / Filing
1	Ms. P.V. Powar, Dr. S. P. Chaudhari	Ms. P.V.Powar, Dr.S.P.Chaudhari	Isolation Of Endophytic Fungi, Paef4 Fungi Used For Pigment Isolation Optimization Process	India 202421035777A	14/06/2024

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421020899 A

(19) INDIA

(22) Date of filing of Application :20/03/2024

(43) Publication Date : 03/05/2024

(54) Title of the invention : "ENDOPHYTIC FUNGI PAEF03 EXTRACT CONTAINING NIOSOME LOADED IN VAGINAL GEL FOR PERINEAL CUT OR EPISIOTOMY"

(51) International classification : A61P0017020000, A61K0009127000, A61K0009000000, A61K0036450000, A61P0017000000

(56) International Application No : NA
Filing Date : NA

(57) International Publication No : NA

(61) Patent of Addition to Application Number : NA
Filing Date : NA

(62) Divisional to Application Number : NA
Filing Date : NA

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(57) Abstract :

The present invention relates to Endophytic fungi PAEF 03 extract containing niosomes loaded gel formulation promotes tissue regeneration and speeds up wound healing by utilizing the healing properties of nature. The present investigation offers to synthesize niosomes using PAEF3 extract which is rich source of polyphenol. Further invention relates to niosomal gel which is a comprehensive approach to healing while reducing discomfort by combining bioactive components sourced from natural sources. By means of sophisticated encapsulating technology, the gel guarantees focused distribution of these advantageous extracts, maximizing their therapeutic outcomes. With a synergistic blend of healing ingredients taken from the wonders of nature, this bio-enhanced gel promises to revolutionize wound management, from tiny cuts to chronic ulcers.

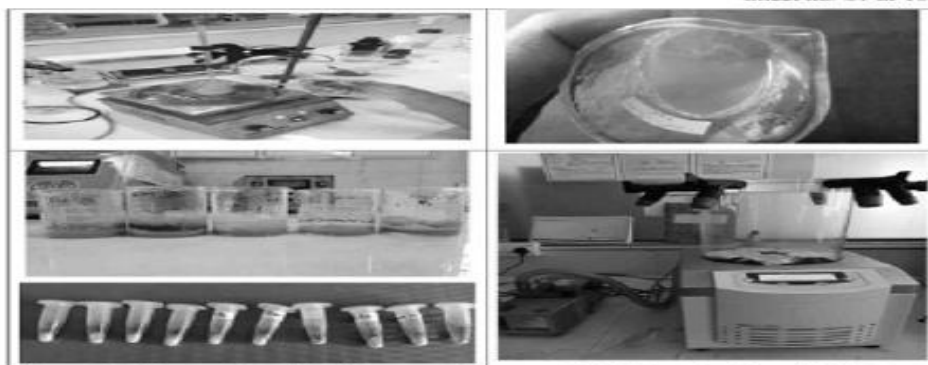


Figure 1:(a) Preparation of PAEF3 extract Niosomes (b) Different batches of PAEF3 extract Niosomes (c)Centrifuged PAEF3 extract Niosomes (d) Lyophilization of PAEF3 extract Niosomes

No. of Pages : 24 No. of Claims : 7