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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.

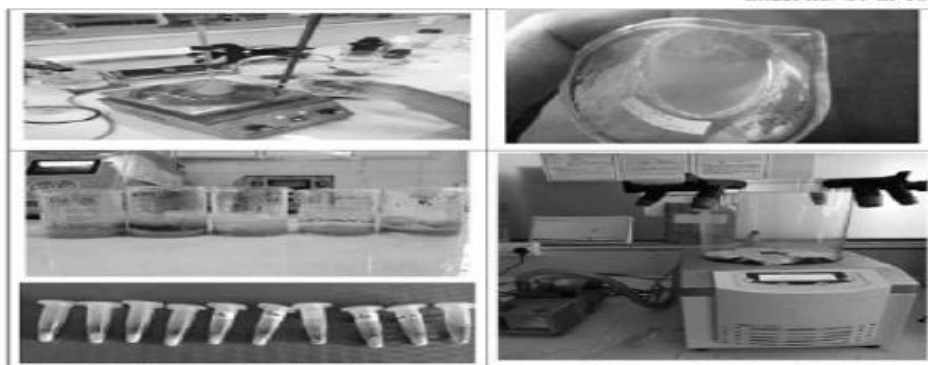


Figure 1:(a) Preparation of PAEF3 extract Niosomes (b) Different batches of PAEF3 extract Niosomes (c)Centrifuged PAEF3 extract Niosomes (d) Lyophilization of PAEF3 extract Niosomes

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