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(54) Title of the invention : ANTI-DANDRUFF HAIR OIL COMPOSITION.		
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(57) Abstract :

In one of the aspect of invention coconut oil was formulated from chitosan nanoparticles and Ethanolic extract of *Tinospora cordifolia* leaves which is mixed at the ratio in 1:10 ratio (10mg of chitosan nanoparticles +100mg of *Tinospora cordifolia* extract) and subsequently blended with the coconut oil in . It was observed that the formulated coconut oil had showed better inhibition on *Pityosporum ovale* causative agent of dandruff whereas only coconut oil had not showed any inhibition. In an another aspect of the invention chitosan nanoparticles and extract obtained from plant parts such as stem, bark, leaves, fruits extracted in an alcohol and combination with chitosan nanoparticles is used as antifungal agent in coconut oil along with neem, tulsi, *Tinospora cordifolia* extract or combination thereof; In the aspect of invention Fluconazole was used as a positive control (1mg/ml) and DMSO (Dimethyl sulphoxide) as negative control. Zone of inhibition was better as compared to individual activities. In an another aspect of the invention it is provided that the Increased stability was observed in case of combined sample kept up to 2 years, Low toxicity of chitosan nanoparticles and *Tinospora* extract makes it more efficient drug. Since, *Tinospora cordifolia* and chitosan nanoparticles are not affected by ultra violet rays and gamma rays showed reduction in size of chitosan nanoparticles thus different range of chitosan nanoparticles can be obtained which can be useful in drug delivery system.

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