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(57) Abstract :

The present invention relates to synthesis of Zinc Oxide nanoparticles (ZnO-NPs) with natural surfactants using green approach, which are less toxic. Natural microenvironment with proper distribution of bacterial (Propionibacterium and Staphylococcus) and fungal (Malassezia) pathogens to mimic the dandruff condition is created. Phytosynthetic ZnO-NPs are used as aqueous based anti-dandruff agent against created microenvironment.

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