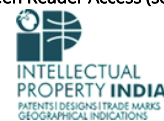




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### Patent Search

Invention Title	UTILIZATION OF RED ROT BAGASSE FOR LIP BALM PREPARATION
Publication Number	01/2020
Publication Date	03/01/2020
Publication Type	INA
Application Number	201941051194
Application Filing Date	11/12/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHARMACEUTICALS
Classification (IPC)	A61K 8/92

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#### Abstract:

The invention pertains generally to use bacterial orange red pigment for lip balm preparation. By cultivating *C. falcatum* using Baggases for diffusible extracellular pigment production at low cost level and easier to extract and purify. The productivity red pigment from Bagasse followed by *Colleioirichum falcatum* cultivation was extracted with solvent and purified with column then , concentrated. There is a need to improve fermentation strategies to enhance pigment production and decrease production costs in order to compete with synthetic pigments. Production of pigments adds great potential for biorefineries in which filamentous fungi can be core biocatalysts to convert by-products into several value-added products. Sugar cane waste is fermented by *C. falcatum* and pigment is extracted followed by 3rd day of incubation. Addition of methanol gives pigment and purified by filtration. Concentrated pigment followed by drying is used as an industrial source for making lip balm and red ink with the help of glycerol and gelatin.

#### Complete Specification

1. Utilization of bagasse for *C. falcatum* cultivation
2. Pigment extraction from bagasse
3. Application of Aloe vera gel, Womega 3 fatty acid in lip balm base
4. Pink and red microbial pigment based Lip balm

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Page last updated on: 26/06/2019