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Patent Search

Invention Title	NOVEL ECOFRIENDLY METHOD OF EXTRACTION FOR FIXED OILS USING SOLVENT ACTION OF SOLID SOLUBILIZERS.
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Inventor

Name	Address	Country
Dr. R.K Maheshwari	Department of Pharmacy, Shri G.S Institute of Technology & Sciences 23 Sir M. Visvesvaraya Marg, Indore, Madhya Pradesh 452003	India
Anirudh Padiyar	Department of Pharmacy, Shri G.S Institute of Technology & Sciences 23 Sir M. Visvesvaraya Marg, Indore, Madhya Pradesh 452003	India
Anjali Padria	Department of Pharmacy, Shri G.S Institute of Technology & Sciences 23 Sir M. Visvesvaraya Marg, Indore, Madhya Pradesh 452003	India
Jaydeep Singh Baghel	Department of Pharmacy, Shri G.S Institute of Technology & Sciences 23 Sir M. Visvesvaraya Marg, Indore, Madhya Pradesh 452003	India
Neelesh Maheshwari	Department of Pharmacy, Shri G.S Institute of Technology & Sciences 23 Sir M. Visvesvaraya Marg, Indore, Madhya Pradesh 452003	India
Pawan Mulani	Department of Pharmacy, Shri G.S Institute of Technology & Sciences 23 Sir M. Visvesvaraya Marg, Indore, Madhya Pradesh 452003	India
Shruti Jain	Department of Pharmacy, Shri G.S Institute of Technology & Sciences 23 Sir M. Visvesvaraya Marg, Indore, Madhya Pradesh 452003	India

Applicant

Name	Address	Country
Dr. R.K Maheshwari	Department of Pharmacy, Shri G.S Institute of Technology & Sciences 23 Sir M. Visvesvaraya Marg, Indore, Madhya Pradesh 452003	India
Anirudh Padiyar	Department of Pharmacy, Shri G.S Institute of Technology & Sciences 23 Sir M. Visvesvaraya Marg, Indore, Madhya Pradesh 452003	India

Abstract:

An ecofriendly method of fixed oil extraction from oil seeds is disclosed. Research work provides a novel idea to the oil extraction plants that solids can also be employed for extraction of active constituents from powders of roots, leaves, seeds, fruits, bark of plants etc. In the present investigation, peanut and sesame oil have been extracted from powdered seeds of peanut and sesame respectively using solubilizing powers of two solids, thymol and menthol using different methods. Menthol and thymol can be recycled after extraction using appropriate methods and hence they can be recycled (from economic point of view).

Complete Specification

Claims:1. A process for extraction of fixed oil from oilseed material comprising the following steps:

- Heating the oilseed starting material with solid solubilizer to produce an oil and solid material containing residual oil.
 - Straining the hot liquid through a filter medium.
 - Evaporating the solubilizer.
 - Collecting the extracted oil.
- The process of claim 1 whereby said solid solubilizer is menthol and thymol, alone or in combination.
 - The process of claim 1 wherein oilseed starting material is sesame seed.
 - The process of claim 1 wherein oilseed starting material is peanut seed.
 - The process of claim 1 wherein oilseed starting material is peanut oil.
 - The process of claim 1 wherein oilseed starting material is sunflower.
 - The process of claim 1 wherein oilseed starting material is mustard seed.

, Description:Field of invention:

The present invention is related to the process of extraction for fixed oils from oil seeds such as peanut and sesame seeds. Particularly, the invention is related to the ecofriendly extraction of oil using safe solid solubilizers, precluding the use of harmful toxic organic solvents.

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