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Patent Search

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Abstract:

The invention relates to eco-friendly thin layer chromatography process using hydrotropic solutions as mobile phase precluding the use of organic solvents. A large n organic solvents, viz. butanol, acetic acid, hexane, acetone, chloroform, ether, ethyl acetate, ethanol, toluene, dichloromethane, xylene, heptane, and cyclohexane are to perform thin-layer chromatography (TLC) of various drugs. Most of these organic solvents are costly and hazardous to health. Some have been reported to be carc a certain extent, such solvents are responsible for environmental pollution also. Also, their disposal requires stringent procedures which makes the process both cos typical. In the present investigation, hydrotropic and mixed hydrotropic solutions were employed as mobile phase to perform TLC of poorly water-soluble drugs prec use of organic solvents.

Complete Specification

Claims:CLAIMS

- A process for performing ecofriendly thin layer chromatographic process using hydrotropic solutions.
- The method of claim 1 wherein provide a process in which hydrotropic solutions is used as solvents in thin layer chromatographic technique.
- The method of claim 1 in which mixed hydrotropic blends are used, excluding the use of organic solvents
- The method of claim 1 wherein various hydrotropic solutions as mobile phase.
- a) A process in which mixed hydrotropic blend containing sodium benzoate and sodium citrate in range 5-20% is used as mobie phase for TLC of norfloxacin, diaz metronidazole, naproxen & nimesulide
- b) A process in which mixed hydrotropic blend containing sodium benzoate and urea in range 5-20% is used as mobie phase for TLC of norfloxacin, diazepam, metronidazole, naproxen & nimesulide.
- c) A process in which mixed hydrotropic blend containing sodium benzoate and sodium aceate in range 5-20% is used as mobie phase for TLC of norfloxacin, dia metronidazole, naproxen & nimesulide.
- A process in which mixed hydrotropic blend containing sodium benzoate and niacinamide in range 5-20% is used as mobie phase for TLC of norfloxacin, diazer metronidazole, naproxen & nimesulide.
 - , Description:FIELD OF INVENTION

The present invention relates to the development of process in which hydrotronic solutions is used as solvents in various chromatographic techniques

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