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Patent Search

Invention Title	A Reverse Phased - Ultra Performance Liquid Chromatography Based Method for Simultaneous Determination of Daunorubicin and Cytaribine
Publication Number	51/2022
Publication Date	23/12/2022
Publication Type	INA
Application Number	202241065572
Application Filing Date	16/11/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHYSICS
Classification (IPC)	G01N0030020000, G01N0030060000, G01N0030860000, G01N0030740000, G01N0030880000

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Abstract:

The present invention relates to pharmaceutical processes and more particularly it discloses an efficient method of reverse phased - ultra performance liquid chromatography based method for simultaneous determination of the drugs Daunorubicin and Cytaribine. This can be achieved by Leapsil C 18 column (Dikma) (4.6 x 50 mm, 2.7µm) using mobile phase of 0.05M Phosphate Buffer pH 3: Methanol: Acetonitrile; 40:30:30 v/v. The detector wavelength was set at 240nm. The flow rate was maintained at 0.4 ml/min, with 4µL injection volume. The optimum concentrations of Cytarabine & Daunorubicin were found to be 37.5µg/mL and 16.5µg/mL. The retention time was found to be 0.842 and 0.492 min correspondingly.

Complete Specification

Description:[0011] The following is a detailed description of embodiments of the disclosure depicted in the accompanying drawings. The embodiments are in such detail as to clearly communicate the disclosure. However, the amount of detail offered is not intended to limit the anticipated variations of embodiments; on the contrary, the intention is to cover all modifications, equivalents, and alternatives falling within the spirit and scope of the present disclosure as defined by the appended claims.

[0012] In the following description, numerous specific details are set forth in order to provide a thorough understanding of embodiments of the present invention. It will be apparent to one skilled in the art that embodiments of the present invention may be practiced without some of these specific details.

[0013] Embodiments of the present invention include various steps, which will be described below. The steps may be performed by hardware components or may be embodied in machine-executable instructions, which may be used to cause a general-purpose or special-purpose processor programmed with the instructions to perform the steps. Alternatively, steps may be performed by a combination of hardware, software, and firmware and/or by human operators.

[0014] Exemplary embodiments will now be described more fully hereinafter with reference to the accompanying drawings, in which exemplary embodiments are shown. These exemplary embodiments are provided only for illustrative purposes and so that this disclosure will be thorough and complete and will fully convey the scope of the invention to those of ordinary skill in the art. The invention disclosed may, however, be embodied in many different forms and should not be construed as limited to the embodiments set forth herein. Various modifications will be readily apparent to persons skilled in the art. The general principles defined herein may be applied to other embodiments and applications without departing from the spirit and scope of the invention. Moreover, all statements herein reciting embodiments of the invention, as well as specific examples thereof, are intended to encompass both structural and functional equivalents thereof. Additionally, it is intended that such equivalents include both currently known equivalents as well as equivalents developed in the future (i.e., any elements developed that perform the same function, regardless of structure). Also, the

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Page last updated on: 26/06/2019