

عنوان مقاله:

Simultaneous UV-Vis Spectroscopic Detection of Metformin and Glibenclamide from Electrospun PCL/PEG Nanofibers

محل انتشار:

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نویسندگان:

A. Naghizadeh - Department of Chemical Engineering, Faculty of Engineering, University of Guilan, Rasht, Guilan,

.M. A. Salehi - Department of Chemical Engineering, Faculty of Engineering, University of Guilan, Rasht, Guilan, Iran

.L. Mivehi - Department of Textile Engineering, Faculty of Engineering, University of Guilan, Rasht, Guilan, Iran

خلاصه مقاله:

In this paper, glibenclamide and metformin are simultaneously detected which are released from a system of PCL/PEG nanofibers using UV-Vis spectroscopy and Q-analysis method. PEG/PCL nanofibers for extended-time codelivery of metformin and glibenclamide were prepared by electrospinning technique. These fibers were mostly cylindrical with an average diameter of 100 to 540 nm with a reasonably uniform diameter for each system. It is shown that this method presents a viable groundwork for the required task. Absorbance of metformin and glibenclamide were calculated for Y to Fo ug/ml at wavelengths of YTO and YOO nm. Calibration curves and Absorptivities of each sample was calculated and statistical analysis shows that the method is viable to simultaneously determine metformin and .glibenclamide from release system

كلمات كليدى:

.UV-Vis spectroscopy, Simultaneous, Drug Release, Nanofiber

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