



SDI Review Form 1.6

Journal Name:	<u>Journal of Advances in Medical and Pharmaceutical Sciences</u>
Manuscript Number:	Ms_JAMPS_32493
Title of the Manuscript:	5-Fluorouracil Encapsulated mPEG-Chitosan Nanogels for Controlling Drug Release
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	1. In the methodology section i.e. 66th line, please specify the full form of THF solution as it is not specified atleast once in the entire manuscript? 2. In the methodology section, the authors have not at all mentioned the procedures and the conditions used in HPLC, FTIR, ¹HNMR AND TEM analysis, which are very much required for understanding the present research 3. In the FTIR analysis, why not the authors have interpreted the individual FTIR spectra of 5-Fluorouracil and its physical mixture spectra with mPEG-CS so as to find the compatibility, because 5-Fluorouracil was also encapsulated in the Nanogels? In the title of Figure 4, the similar keys used in figure should be used instead of using the words "square" "triangular" and "circle" as it will be very difficult for the readers to understand the figure?	1. Thank you for your careful review. The full form of THF was added in the material section i.e. 54th line. 2. Agreed. We should mention the procedures and the conditions used in HPLC, FTIR, ¹HNMR, and TEM analysis. 3. Thank you for your comments. In our FTIR analysis, we've focused on our efforts on demonstrating successful synthesis of mPEG-CS nanogels. In addition, the encapsulation of 5-FU in mPEG-CS nanogels was indicated by HPLC analysis. Therefore, the individual FTIR spectra of 5-FU and 5-FU-loaded mPEG-CS nanogels were not interpreted in the FTIR result. Thank you so much. 4. We appreciate your comments. The caption for Fig.4 were changed for better understanding. Many thanks.
Minor REVISION comments	1. Why the authors have not specified the word "Nanogels" in the Aims section of Abstract? 2. In the 2nd paragraph of introduction section i.e. 38th line, please change the word from "cannot" to "not" as the word cannot is unsuitable for giving meaning to the sentence?	1. Thanks for your comments. The word "Nanogels" was mentioned in the Aims section of Abstract. 2. Thank you. The word "cannot" was converted to "not".



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<u>Optional/General</u> comments	1. The authors way of writing the manuscript specifies only the outline part of their research not the depth. 2. Moreover, the sentences which are written in the manuscript are well known. Can the authors write some findings of their research which are new and can show the novelty of their research 3. What was the problem with the previously published papers.	1. The depth of this manuscript has been expanded to include a more studies relevant to the review. 2. As you requested, some studies were introduced to show the novelty of this manuscript. 3. The problem in previous papers were mentioned. Thanks a lot.
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