

### ReviewForm3

JournalName:	<a href="#">JournalofPharmaceuticalResearchInternational</a>
ManuscriptNumber:	Ms_JPRI_130088
TitleoftheManuscript:	TransdermalDeliveryofL-Arginineinlipophilicformulations:Anovelapproachformuscleproteinsynthesis.
TypeoftheArticle	OriginalResearchArticle

#### PART1: Comments

	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	Targeted drug delivery systems have showed a lot beneficial effects in comparison to conventional drug delivery systems. This particular study demonstrated an alternative route (other than oral delivery) for delivery of L- Arginine by formulating it into an emulsion gel for transdermal delivery. This formulated gel, bypass first pass metabolism and also ease application.	<b>AGREE</b>
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>NO</b> , the title has emphasised on <b>lipophilic nature of formulation and muscle proteins synthesis</b> , which haven't much discussed in this study. The title should highlight the type of formulation i.e., emulsion gel. The title could be: <b>Transdermal Delivery of L-Arginine loaded-emulsion gel: Anovel alternative for oral drug delivery systems.</b>	<b>DO NOT AGREE:</b> This study demonstrates the lipophilicity of L-Arginine which was further formulated into an emulsion gel for transdermal delivery as a topical formulation (Lipid-based drug delivery system). The lipophilicity proved to enhance the stability and absorption process of L-Arginine evidently by steady-state diffusion, thus supporting the title of this paper.  This study aims to offer an alternative method for muscle protein synthesis, particularly for sports enthusiasts, The title reflects the focus to the target audience.
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	The results section of abstract could be modified further by addition of SEM and GC-MS results.	<b>AGREE:</b> The abstract has been modified, with SEM and LC-MS results included.
<b>Is the manuscript scientifically correct? Please write here.</b>	The manuscript doesn't seem to include complete measures involved in formulation of discussed delivery system and also some crucial evaluation parameters that are not discussed in the manuscript should be considered like entrapment efficacy and stability studies. This manuscript does need a lot of work on the formatting.	<b>DO NOT AGREE:</b> This study does not include entrapment efficacy and stability studies. However, TEM imaging and ImageJ analysis address the droplet size of the lipophilic droplets of the active ingredient and transdermal delivery efficacy which were found to be within the nano range. Further research on encapsulation, drug loading, and stability studies would be valuable for future investigation. The formatting has been checked and corrected.
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	References are insufficient number.	<b>AGREE</b>
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	Manuscript has acceptable English quality whereas, it does include few spelling mistakes.	<b>AGREE:</b> Spellings and sentence check done.
<b>Optional/General comments</b>	The authors should focus on formatting of manuscript. The methods and results should be precise. Few sections like SEM study are not mentioned in methodology, while are present in results. The results don't include proper justification and are unorganized. The figures are not cited in the text properly.	<b>AGREE:</b> Formatting has been appropriately done as suggested. The SEM methodology has been included in the methodology section.  The figures that were inappropriately cited have been corrected

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	