

## Review Form 1.6

Journal Name:	<a href="#">Journal of Pharmaceutical Research International</a>
Manuscript Number:	Ms_JPRI_78088
Title of the Manuscript:	ASSESSMENT OF ANTIMICROBIAL ACTIVITY AND CYTOTOXICITY ACTIVITY OF AZADIRACHTA INDICA AND STEVIA REBAUDIANA BASED MOUTHWASH PREPARATION
Type of the 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. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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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)
<p><b>Compulsory</b> REVISION comments</p>	<p><b>TITLE SECTION:</b> The title can be improved. My suggestion: ANTIMICROBIAL ACTIVITY AND CYTOTOXICITY OF MOUTHWASH PREPARED FROM ZADIRACHTA INDICA AND STEVIA REBAUDIANA EXTRACT</p> <p><b>ABSTRACT SECTION:</b> The <b>aim</b> can be improved. My suggestion: "To demonstrate that the mixture of Azadirachta indica/stevia rebaudiana extract that could be a better alternative to chlorhexidine as a new natural herbal combination for mouthwash preparation." <b>Material and methods:</b> Nauplii or shrimps? Unify terminology used in the manuscript. <b>Results:</b> There are not even the statistical analyses in any graph of manuscript. where is the correlation in manuscript?</p> <p><b>INTRODUCTION SECTION:</b> Improve the introduction (order the ideas and the objective of the work). For example: The objective is better at the end of the introduction, please explain the relevance of your study clearly.</p> <p><b>MATERIALS AND METHODS SECTION:</b> <b>Preparation of plant extract:</b> Why did the authors use this extraction protocol? followed any previously published study? It would be interesting to include a reference. What is the ratio of Neem and stevia in the extract? and because?</p> <p><b>Cytotoxic activity:</b> <b>Saltwater preparation:</b> Please define nauplii? and indicate why it was used? When and how were the nanoparticles prepared?</p> <p>"...In further studies, the anti-diabetic and anti-inflammatory activity can be done.": This information is not relevant to the investigation</p> <p><b>Antimicrobial activity:</b> "...MHA", this abbreviated form was not previously defined.</p> <p><b>RESULTS SECTION:</b> <b>FIGURES:</b> <b>Figure 4:</b> Some bacteria are not reported in the methodology. Please check the text. <b>Figure 5:</b> no control sample, no statistical analysis, and no units on the graph axes. <b>Figure 6:</b> Figure 6 is the same as Figure 5, please delete. <b>Figure 7:</b> In figure 7 the control bar is shown because it is not in figure 5, please delete figure 7 and incorporate figure 5. The test group bar is not representative of the behaviour of cytotoxic effects, since it is the average between the different concentrations (day 2). <b>Figure 8:</b> no control sample and no statistical analysis.</p> <p><b>DISCUSSION SECTION:</b> Reconsider the discussion. Why of the results? Are there other comparable investigations? For example: "The zone of inhibition increased as the concentration level increased.", Is expected? "...there was a variation found in Candida albicans found in 150µl concentration level", Why?</p>	

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	<p><b>CONCLUSION SECTION:</b> In vitro tests are only shown as a first step to dental studies in this work, check the conclusion.</p> <p><b>REFERENCE SECTION:</b> Check the uniformity of the references. There are too many references for so little information discussed.</p> <p><b>GENERAL COMMENT:</b> The work is not clear. Focus the study of plant extract (mixture ratio, extraction protocol, nanoparticles use, define the concepts to use) and its behaviours on the antimicrobial and cytotoxicity effects (the reason for the results). Then, study and perform statistical analyses and correlations of the assays appropriately.</p> <p>Reconsider the planning of all this project/idea. After rewriting and rethinking the work, please, consider the help of an English-language reviewer.</p>	
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments		

### **PART 2:**

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

### **Reviewer Details:**

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