

Review Form 1.7

Journal Name:	Asian Journal of Applied Chemistry Research
Manuscript Number:	Ms_AJACR_95845
Title of the Manuscript:	Phytochemical screening , Anti-obesity and Hepatoprotective activities of ethanol leaf extract of <i>Jatropha tanjorensis</i> in Wistar rats.
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. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalajacr.com/index.php/AJACR/editorial-policy>)

Review Form 1.7

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>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<ol style="list-style-type: none"> 1. No, because the results are not clear and the conclusions are not consistent with the results. 2. Yes. 3. Yes. 4. Yes. 5. No, because the results are not clear and the conclusions are not consistent with the results. 6. No. <p><u>About weight gain</u></p> <p>1) Effect of Aqueous Leaf Extract of <i>Jatropha tanjorensis</i> on parasitaemia and haematological parameters in mice infected with <i>Plasmodium ber ghei</i>. DOI: 10.4314/njb.v38i1.17</p> <p>2) <i>Toxicity assessment of the methanol extract of Jatropha tanjorensis (Euphorbiaceae) leaves</i> <i>Future Journal of Pharmaceutical Sciences</i>'7, Article number:143(2021).</p> <p><u>About anti-obesity effects</u></p> <p>1) Chemical composition and in vitro antiobesity and in vivo anti-hyperlipidemic effects of Ceratotheca sesamoides, <i>Jatropha tanjorensis</i>, <i>Mucuna flagellipes</i>, <i>Pterocarpus mildbraedii</i> and <i>Piper guineense</i>. https://doi.org/10.1016/j.phyplu.2021.100042</p> <p><u>About hepatoprotection</u></p> <p>1) Hepatoprotective and Antioxidant Effects of the Flavonoid-rich Fraction of the Methanol Extract of <i>Jatropha tanjorensis</i> Leaves in CCl4-induced Liver Injury in Rats..<i>IOSR Journal of Pharmacy and Biological Sciences</i> 12(01):54-61 DOI:10.9790/3008-1201025461</p> <p>2) Toxicological Effects of <i>Jatropha Tanjorensis</i> Aqueous Leaf Extract on Kidney and Liver in Wistar Rats. <i>J Med & Bas Sci Res</i>: 2 pp. 31-36. https://zenodo.org/badge/DOI/10.5281/zenodo.5809670.svg</p> <div style="border: 1px solid black; padding: 5px;"> <p>Abstract <u>In Methods:</u> It is not said if the rats are obese or diabetic. <u>In Results:</u> There is not the p-value of each revelant analisys. The results do not like consistent. Therefore, the conclusion colud be considered precocious.</p> <p>Introduction In the last paragraph of the introduction, it is written that this work is a review, however this work is a research with animals and does not contemplate the objective of the work as shown below: "This review focuses on valuable knowledge of traditional uses, phytochemistry, and pharmacological activities of Jatopha tanjorensis against some tropical diseases, in order to highlight its therapeutic potentials with a view to integrate it into conventional medical use."</p> <p>Methods Chart 1 data differ from the abstract. There is also no detailed description of the design of the experiment, as information on whether the animals were healthy, their sex, what their initial weight, the time of the experiment, how many times they received the <i>Jatropha tanjorensis</i> extract and the reason why the abdomen of the animals was opened is missing.</p> </div>	

Review Form 1.7

	<p>In most descriptions of qualitative tests for screening the phytochemical properties of <i>Jatropha tanjorensis</i>, there is no bibliographic reference. There is no description of the test for glycosides and no bibliographic reference.</p> <p>There is no description or any information about the method and/or kits used to evaluate the anti-obesity effects of the extract.</p> <p>Results Standard deviations were not included and if there was significance between the groups in figure 2. It is also necessary to specify whether the cholesterol is total or LDL. According to table 2, only the AST showed a significant difference. Although, I suggest that p value be placed in the last column and the column "Concentration mg/kg of body weight" removed.</p> <p>Discussion In the discussion, there was no explanation about the findings of the work. Other works have been described. Bibliographical references are missing.</p> <p>Conclusion The conclusion could not be as described because groups B, C and D apparently gained weight in relation to group A (figure 1), there was an increase in triglycerides and cholesterol, and a decrease in HDL cholesterol, in the groups that underwent the intervention in figure 2 Regarding hepatoprotection, there is no way to infer without p values.</p>		
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language and the formatting can be improved. Also, remember to put the meaning of the abbreviations in Table 2.</p>		
<p>Optional/General comments</p>			

PART 2:

	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>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

<p>Name:</p>	<p>Suzana Maria Ramos Costa</p>
<p>Department, University & Country</p>	<p>Universidade Federal de Pernambuco, Brazil</p>