



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_24604
Title of the Manuscript:	Invitro Inhibitory Effect of Methanol Leaf Extract of Cadaba Farinosa on Carbonic Anhydrase Activity
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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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) Concentration-dependent effect of the extract should be performed. Results without concentration-dependent effect are preliminary and incomplete. 2) Carbonic anhydrase activity should be expressed per mg or μg protein as specific activity. No increase or decrease of the activity is considered without specific activity. All data should be recalculated after protein assay. The authors did not show any definition of the activity unit of the enzyme and they showed that it is expressed per μl in the title of y-axis of the figures. 3) What is the source of carbonic anhydrase? The authors mentioned in the caption of Figure 1a that it is a bovine erythrocyte enzyme. They did not mention in the materials anything about that. How is it prepared or obtained?. 4) No clear objective of the article. Is there any relation between anti- inflammatory, anti diabetic and in female fertility effects and carbonic anhydrase?	1) The main aim was just to see whether the plant leaves have any effect on carbonic anhydrase activity. Since it was found to have now, my next work will be at what concentration will it bring about the desired activation or inhibition. 2) The enzyme activity was determined in carbonic anhydrase from bovine erythrocyte purchased from sigma Aldrich. And the activity was determined invitro. Because the procedure requires that the concentration of the lyophilised enzyme powder to be used for the assay should be 0.1mg/ml which is equivalent to 100μg/ml. So for each 1ml we have 100μg carbonic anhydrase enzyme. But 10μg/100μl was used for inhibition studies. 3) Bovine erythrocyte carbonic anhydrase was purchased from Sigma Aldrich (England). P-nitrophenyl acetate and Trizma base were purchased from Sigma Aldrich (England). 4) The objective of the study is to determine whether the plant leaves used by locals mostly in the treatment of diabetes and cancer has any effect on carbonic anhydrase activity.



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		Many published studies have reported the influence of carbonic anhydrase in physiological and pathological condition. i. Carbonic anhydrase has been reported to increase in cancer, there are so many researches at present trying to inhibit carbonic anhydrase in cancer. ii. Decrease in carbonic anhydrase activity has been associated with decrease in blood glucose level. iii. Since carbonic anhydrase is a pH regulatory enzyme it must play a very important role in inflammation.
<u>Minor</u> REVISION comments	1) Invitro in the title must be "In vitro". 2) On page 1, you should continue the paragraph in the second and fourth lines. 3) On page 3 (carbonic anhydrase assay), you have to remove " by vapoorte et al." and "by Parui <i>et al.</i>," and the numerical citation of references is enough. 4) The reference style should be unified according to journal system. The journal name in Ref 11 is not abbreviated. Space between Refs 22 & 23 must be deleted.	1) I have corrected it 2) I have done that 3) They have been removed 4) They have all been unified
<u>Optional/General</u> comments	In this manuscript, experiments should be done and the text must be rewritten.	I have taken note of that. Thank you