

**Review Form 1.7**

Journal Name:	<b>Asian Journal of Research in Animal and Veterinary Sciences</b>
Manuscript Number:	<b>Ms_AJRAVS_112986</b>
Title of the Manuscript:	<b>The in vitro effects of Neem bark extract on rumen pH, gas production and biohydrogenation of polyunsaturated fatty acids</b>
Type of the Article	<b>Original Research Article</b>

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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> <ol style="list-style-type: none"> <li><b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li><b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li><b>Is the abstract of the article comprehensive?</b></li> <li><b>Are subsections and structure of the manuscript appropriate?</b></li> <li><b>Do you think the manuscript is scientifically correct?</b></li> <li><b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript entitled "The in vitro effects of Neem bark extract on rumen pH, gas production and bio hydrogenation of polyunsaturated fatty acids" has a great importance for scientific community with regards to produce functional food that is beneficial for human health and is more important to as alternate of antibiotic and growth promoters</p> <p><b>In vitro study of Neem Bark Extract on rumen fermentation and bio-hydrogenation of polyunsaturated fatty acid</b></p> <p><b>In abstract study design should be summarize</b></p> <p><b>Yes structure of manuscript is appropriate</b></p> <p><b>Yes manuscript scientifically correct ,but need to be revised as per suggestion</b></p> <p><b>Better to add more recent and relevant reference</b></p>	
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li><b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>	<p>Language is easy and suitable for scholar communication</p>	
<p><b>Optional/General</b> comments</p>	<p><b>What is specific object of your study?</b> Gas production? Rumen fermentation? Production of PUFAs? Please write clear your study objective with relation to parameters studied.</p> <p><b>Experimental design</b> Your experiment consist on three treatment contain three level NBE 100, 200 and 400 mg/l incubated for 12, 24 and 48 hours. I wonder, why you terminated the 1<sup>st</sup> treatment after 12 hours, what is logical behind 2<sup>nd</sup> treatment used different bottles, why not continue the first bottles for 24, and 48 hours. Explain it?</p> <p><b>Composition and amount of substrate</b> Composition 70% Roughages and 30% concentrate of amounting 1g of substrate so called basal diet used. Which method is used for this experiment design? Please provide detail with reference <b>Similarly, in your experiment the rumen fluid 10ml and medium buffer 80 ml is used. Please provide detail with reference</b> <b>Generally NBE has much antimicrobial and anti-inflammatory effect. Do you have study the microbial ecology of rumen fermentation? If not then, how do you confirm the bio-hydrogenation process in rumen.</b></p>	

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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>	

**Reviewer Details:**

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