



**SDI Review Form 1.6**

Journal Name:	<a href="#">Journal of Applied Life Sciences International</a>
Manuscript Number:	Ms_JALSI_34760
Title of the Manuscript:	Microbiological and Physicochemical Characteristics of Sheep Milk Heated with Charcoal, Gas and Microwave
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)
<b>Compulsory</b> REVISION comments	<p>The manuscript deals with the problem of heat treatment of sheep milk in some areas of the Third World Countries and is interesting for similar conditions, but I believe that it's necessary for the authors to clarify some methodological aspects and to add integrations</p> <p><b>Material and Methods</b></p> <ol style="list-style-type: none"> <li>1) What was the volume of the sample of heat-treated milk?</li> <li>2) How many replicates have been made for each treatment?</li> <li>3) The manuscript does not indicate how much time it took for the milk to reach 99 °C with the three methods used</li> <li>4) From the manuscript I understand that when the milk reached the 99 °C temperature it was kept at this temperature / 12 min; I suggest telling how the milk was kept at a temperature of 99 °C / 12 min during the heat treatment</li> </ol> <p><b>Results</b></p> <ol style="list-style-type: none"> <li>1) I suggest indicating how the milk was cooled to +4 °C and how much time</li> <li>2) I think it is likely that at the end of each heat treatment the sample of milk had a change in its volume by evaporation of water; I suggest clarifying this point because any volume reduction affects the concentration of solutes</li> <li>3) Authors evaluated pH and concentration of solutes in heat-treated milk, but not any heat modifications of the nutrients, for this reason at pag. 3, 3.2 I suggest to edit in: Effect of storage period on the characteristics of milk heated with charcoal, gas and microwave.</li> <li>4) I do not understand what sheep milk refers to the</li> </ol>	<ol style="list-style-type: none"> <li>1- The volume of milk samples is 500 ml in each replicate</li> <li>2- Three replicates</li> <li>3- 20 minutes for microwave and gas and 30 minutes for charcoal</li> <li>4- Done</li> </ol> <ol style="list-style-type: none"> <li>1. Done in materials and methods</li> <li>2. Your statement is true but I think it is known for each person that heating affects the volume of milk and there is no need to mention this</li> <li>3. We do not understand your statement</li> <li>4. It is elaborated in the text</li> </ol>



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	<p>data in Table 2 (raw? heat-treated ?) 5)Tab. 4 , shape : change sphere with cocci.</p> <p><b>Conclusions</b> The authors do not express any evaluation about three heat treatment methods; I suggest to integrate the conclusions with considerations on the benefits of heat treatment of sheep's milk with gas and microwave compared with charcoal; I think it's useful to clarify whether the results of the study are for home heat treatment model or other; for microwave treatment and for refrigeration it is necessary to have electricity!</p>	<p>5. Done</p> <p>It is clarified in the conclusion that it is for home rather than other purposes and this is because in Sudan the people are shifting to use gas specially to conserve the environment and in cities the people started to use microwave. We think these points and clarified in the conclusion and if we add more sentence it will be redundant</p>
<b><u>Minor</u></b> REVISION comments		
<b><u>Optional/General</u></b> comments		