



SDI Review Form 1.6

Journal Name:	Asian Journal of Research in Crop Science
Manuscript Number:	Ms_AJRCS_43142
Title of the Manuscript:	Phytochemical properties and antimicrobial activities of Turmeric plant extract
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	<p>1. To the tile you can add the scientific name of the turmeric; may be you can change it as follows;</p> <p>Phytochemical properties and antimicrobial activities of aqueous extract of <i>Curcuma longa</i> (Turmeric) rizome extract</p> <p>It seems that you have used only the aqueous extract, if so better include it as the extraction method also have an effect on the activity.</p> <p>2. In the introduction part the author can include why they selected <i>E.coli</i> and <i>Staph. aureus</i>. Add some points to highlight these two organisms are important as pathogens.</p> <p>3. In the methodology study area is included, why it is specifically include the area, I think it is not so important, may be you can omit it as there is not much impact of geographical location on this study.</p> <p>4. In the methodology under the heading of preparation of plant extract; you have mentioned that the rhizomes were carefully washed with clean water and steamed for 10 minutes.</p> <p>5. By steaming are there any changes to the composition or to the phytochemicals. Please indicate what do you mean by “carefully washed”, is to indicate that thoroughly washed to remove all impurities??? If so adjust your sentence.</p> <p>6. Have you used only the aqueous extract?? Mention it.</p> <p>7. It has mentioned that you have obtained isolates from different medical laboratories within Makurdi metropolis; are those already confirmed as <i>E. coli</i> and <i>Staph. aureus</i>???? As they already the known isolates, in your study it is not necessary to isolate but you have to confirm the isolates by using conventional methods (as you did in this study) or by PCR.</p> <p>8. Are these isolates from human cases??? Will it be possible to include that too the samples, as “Organism were isolated from “</p> <p>9. I think it is better to change the subtitle “ Isolation and identification of bacteria” in to recovering of bacteria or include this part also under the title of 3.4.1. Preparation of microorganisms for the experiment</p> <p>10. Why the both the organisms sub-cultured on MaConkey agar??? For <i>Staph. aureus</i> there are more specific differential or selective media such as MSA?? Any reference why you use this.</p>	<p>1. The title has been adjusted as proposed.</p> <p>2. It has been added in the introduction.</p> <p>3. He study area is important as it tells where the study was conducted.</p> <p>4 and 5.The composition after steaming was not checked. It will be checked during further research.</p> <p>10. We used the Media available to us during the study.</p> <p>6. Aqueous extract mentioned.</p>



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	<p>11. In the section of 3.4.1 as the last sentence it is mentioned that “After identification, the remaining isolates that were not used were subcultured in nutrient agar slants and stored at 4 °C”. What did you mean by using remaining isolates? Here I think it is better to write that following the identification of the organisms, they were store at.....for further use. But it is not good storing temperature for the cultures (this you can use only for few days), may be you could use soft agar butts or better to store at -70-80 °C for further use. Please clarify this point as well.</p> <p>12. For the identification or confirmation of isolates please indicate some reference, or a standard method you followed, eg. According to the Bergey's manual etc</p> <p>There was a sentence in the coclusion saying that “Consumption of this plant extract by patients with soft bone problems, muscle contraction and anemia due to the presence of calcium and iron will help in healing of the infection”. I think based on your objective you cannot conclude as such; you checked the pytochemicals and the antimicrobial activity. This misleads you research objectives, therefore it is better if you can remove this sentence from the conclusion (even the other sentences are not so solid as a conclusion). <u>Better you re write the conclusion based on your study.</u></p>	
Minor REVISION comments	<p>1. 3.4.4 H₂SO₄ should be corrected, 3.4.8; 1 minute it is like 1</p> <p>2. For identification of E.coli if the author could use all the IMViC tests that would be good</p> <p>3. Please check the uniformity of the references and adjust with the journal guidelines. E.g 10 , 11th references. Please check all the references.</p>	
Optional/General comments	<p>The study is touching an area which is in need at the moment to combat the development of antibiotic resistance by pathogenic organisms. It is true that there is an urgent need of findings some alternatives to antibiotics.</p> <p>In general the article flow is fine but need few improvements for keeping the journal status.</p>	There will be improvements in further research. Thanks.

As per the guideline of editorial office we have followed VANCOUVER reference style for our paper.

Kindly see the following link:

<http://sciencedomain.org/archives/20>