

## Review Form 1.6

Journal Name:	<a href="#">South Asian Research Journal of Natural Products</a>
Manuscript Number:	Ms_SARJNP_76784
Title of the Manuscript:	Stability and Antioxidant Activity of Natural Red Pigment by Pseudomonas stutzeri ZH-1
Type of the Article	Original 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://peerreviewcentral.com/page/manuscript-withdrawal-policy>)

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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 present study is very interesting in terms of new potential bioproducts and brings novelty for further investigations. The strain is described, and its pigment well characterized in terms of stability and the potential use thought by the authors.</p> <p>There are only 4 references in discussion section and you should consider to enhance your findings and discussions in order to bring a more concise text.</p> <p>I believe that authors must let other potential uses for new pigments. I suggest biocolorant and a short paragraph should be added in text (I suggest in the introduction or discussion). Pigments are welcome in food, pharmaceutical and cosmetical industries but textile industry is a great percentual of importance, specially because your pigment is stable, a very expected characteristic for a good natural textile colorant.</p> <p>You can find some studies in the literature and allow me to give you two articles on this issue:</p> <p>Gonçalves T.; Vasconcelos, U. (2021) Colour Me Blue: The history and the biotechnological potential of pyocyanin. <i>Molecules</i> 26: 927, doi: 10.3390/molecules26040927</p> <p>Gonçalves T., Oliveira B.T.M., Vasconcelos U. (2021) Uso de piocianina no tingimento de fibra de algodão. <i>Int J Develop Res.</i> 11(02): 44127-44134.</p> <p>I believe it will improve your work and bring to further researchers new horizons of studies. These are some other suggestions:</p> <ol style="list-style-type: none"> <li>1) I think authors must consider letting the reader know why they choose the extraction method. Did the method select due to the nature of the molecule? Would be the red pigment a carotenoid? What let them to think ethanolic extraction would result exactly their expectations? A short phrase in section 2.2 will solve it.</li> <li>2) I also think you should finish the text by saying in what your results will contribute for future investigations.</li> <li>3) In the end of the manuscript, we are heard that the authors have not the NMR or similar characterization of the molecule. Please provide some references that probably name the molecule (the family at least). If this was the first report of a red pigment (carotenoid???) from <i>P. stutzeri</i>, the information must be provided (as far as the authors know)</li> </ol>	
<b>Minor</b> REVISION comments	<ol style="list-style-type: none"> <li>1) Section 2.1 – line 3: please to separate “and” and “agar”</li> <li>2) Discussion, line 3: please rephrase this sentence “...A blue pigment form <i>Streptomyces coelicolor</i> color...”. In my opinion, it would be better if written “.. , the blue pigment from <i>Streptomyces coelicolor</i> was changed...”</li> <li>3) Discussion, paragraph 2: considering the results, please provide</li> </ol>	
<b>Optional/General</b> comments	<p>.</p> <p>Hope success in further experiments to you and your research group.</p>	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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>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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Department, University & Country	<b>Federal University of Paraíba, Brazil</b>