Reviewer's report

Title: Antibacterial activities, proposed mode of action and cytotoxicity of leaf extracts from Triumfetta welwitschii against Pseudomonas aeruginosa

Version: 0 Date: 11 Aug 2019

Reviewer: Douglas Monteiro

Reviewer's report:

The present article evaluated the antimicrobial and cytotoxic effects of extracts from Triumfetta welwitschii. The subject addressed is interesting and relevant from the clinical point of view, however, several aspects must be considered by the authors, as follows.

- The entire article must be revised for English.

- Introduction. The Introduction section should contain the clinical relevance of Pseudomonas aeruginosa as a pathogen causing infections in humans.

- Preparation of extracts. A reference should be added to support the method used (The cold maceration method).

- Page 6, lines 19-22. "Inoculum concentration was adjusted to 106 c.f.u/ml by diluting the inoculum using tryptic soy broth using McFarland standard". What was the McFarland standard used?

- Page 7, line 1. "The MTT assay was used to observe the presence...cells". Please add a reference to the method used.

- Page 6. The incubation period to evaluate antibacterial activity should be mentioned.

- Why was the antibiofilm effect of the extracts not performed? This analysis would increase the impact of the study.

- Page 7, lines 31-33. "The optical density of the cells was adjusted to an OD600 = 1.5 using PBS". The cell concentration in this OD should be mentioned.

- Results (Page 12, lines 35-42). "The highest amount of nucleic acid leakage was produced when cells were exposed to 200 μg/ml DCM/methanol leaf extract while the ethanol leaf extract caused the least nucleic acid leakage at the same concentration". Is this statement correct? It seems to differ from the results shown in Figure 4.

- Page 12, lines 50-53. "At a concentration of 100 μg/ml, the DCM/methanol leaf extract showed the highest haemolytic effect". This sentence should be removed because it is repeated.
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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