Reviewer's report

Title: Antioxidant and cytoprotective activities of piper betle, areca catechu, uncaria gambier and betel quid with and without slaked lime

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Reviewer: Alberto de Oliveira

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Minor Essential Revisions

In this manuscript entitled “Antioxidant and cytoprotective activities of piper betle, areca catechu, uncaria gambier and betel quid with and without slaked lime” the authors demonstrated antioxidant and cytoprotective activities of betel quid and your ingredients.

The author’s main findings are that:

The betel quid has higher antioxidant and cytoprotective activities than betel quid with slaked lime and play an important role in the oral health protection. This work is relevant because new improved herbal medicines. I think that this manuscript should be accepted for publication but I have some considerations:

1) Scientific names are wrong along the paper. For example: areca nut is wrong, the correct is Areca nut (scientific name start with capitalized).

2) Significant digits are not standard.

3) In the item Sample collection, Piper betel was identified how Piper sp., Why? The authors need to authenticate Areca c. and Uncaria g. too and voucher specimen deposited.

4) In table 2, the authors put MW value but not specifies that the mass value corresponds to observed or calculated. I think the authors should add the two information. In the same table I think that area under the peak (%) calculated for this method is not correct because different classes of molecules do not have the same behavior during the ionization.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:
I declare that I have no competing interests