Author’s response to reviews

Title: Improved antibacterial effects of alkali-transformed saponin from quinoa husks against halitosis-related bacteria

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Author’s response to reviews:

1. The abstract should be improved to clearly depict the methods used.

Response: The changes were marked in red in the text.

2. All tested bacteria are anaerobic (obligate anaerobic). Did the authors test also aerobic bacteria?

Response: We did not test aerobic bacteria. That was because the main bacteria that cause halitosis include Porphyromonas gingivalis (P. gingivalis), Clostridium perfringens (C. perfringens), and Fusobacterium nucleatum (F. nucleatum). These three bacteria are anaerobic. The main purpose of this experiment is to study the antibacterial effect of alkali-transformed saponin from quinoa husk against halitosis-related bacteria. So we just tested anaerobic bacteria.

3. Why did the authors not use standards MIC/MBC determination methods (CLSI)?


4. In the results and discussion section, the authors depicted their results comprehensively. However, not all results were discussed sufficiently.

Response: The changes were marked in red in the text.
5. The language of the manuscript should be revised by a native speaker (e.g.: page 2, line 13, page 5, line 102…).
   
   Response: The changes were marked in red in the text.

6. The results should be separated from discussion.

   Response: The changes were marked in red in the text.

7. No new description of the methods should appear in the discussion.

   Response: The changes were marked in red in the text.

8. The methods should describe the whole process, either for antimicrobial effect or for how to study the antimicrobial mechanism on the bacteria.

   Response: The changes were marked in red in the text.

9. In the section results, you should put only different results; In the section discussion; you discuss the results.

   Response: The changes were marked in red in the text.