

Review of: "Phytochemical Analysis and Antioxidant Activity of Extracts from *Berchemia zeyheri* — A Swazi Medicinal Plant"

Sharina Shamsudin

Potential competing interests: No potential competing interests to declare.

Dear authors,

There are some suggestions for improvement:

1. Title: *Berchemia zeyheri* must be written in Italic

2. Introduction:

- In the literature reviews, Authors did not mention the origin of the country of the *B. zeyheri* used by others researchers as compared to their *B. zeyheri* used in the study. I believe the origin of *B. zeyheri* should be specified clearly as the composition of phytochemicals in plant can be affected by the geographical origin.

- Authors should explain why they used different type of solvent for extraction. (Example: what is the aim of using various types of solvent in this study)

- Authors should explain why only DPPH assay were used in the study. It would be preferable if the authors used more assays (Examples: FRAP, ABTS, RP and etc.) to support the findings

3. Materials and methods:

- Section 2.3: All the data of extraction that obtained from the study should be written into a table to help others to understand the data easily and more clear.

-Section 2.5: The procedure used to analyses phytochemicals needs to be well explained. and elaborate clearly to help others to repeat the method in the future.

- Section 2.7: Authors did not mention the type of statistical test used in the study (Examples: one way ANOVA, two way ANOVA and etc.)

4. Results and discussion:

- Section 3.1: There are some mistakes have been made in the reporting of the results of the phytochemical analysis. Please review the whole section of 3.1.

‘The presence of alkaloids was detected in E1-E6 and E8-E1, while steroids were identified in E1-E6, E8 and E9....’ – It should be E1-E6 and E8-E10; E1-E6, E8 and E10

‘Additionally, glycosides were found in E1-E3, E5, E6, E9 and E10,.....’ – It should be E1-E3, E5, E7, E9 and E10

‘Proteins were found in E1, E4-E6 and E9.....’ – It should be E1, E4-E7 and E9

- Table 1: It would be preferable if authors could classify E1 – E10 according to the type of extraction (leaves or stem-bark extract)

Phytoconstituents	Leaves extract	Stem-bark extract
	E1 – E5	E6 – E10

- Authors just reported the results obtained from the study by comparing the data from different part of the plant and solvent types. However, the authors did not discuss about the findings deeply. (example: explain why the results obtained are different from previous studies/different between solvent types/different between part of plan).

This manuscript can be accepted with some minor corrections.