

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

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Potential competing interests: No potential competing interests to declare.

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

## 1. TITLE SECTION:

The authors should include the plant authority, and the plant name should appear in italics.

## 2. ABSTRACT

- i. Can the authors please reconstruct the introductory sentence?

Describe the plant as this; *Berchemia zeyheri* is a flowering shrub found all over the world.....which belongs to the Rhamnaceae family. It has been ~~B. zeyheri~~ used in traditional medicine in Swaziland to treat various ailments, which include backache, cough, diarrhea, dysentery, headache, rectal ulcers, gastrointestinal issues, and vomiting. (The authors can provide the economic value of the plant; maybe it is eaten as food before its medicinal value.)

- i. It seems the IC<sub>50</sub> unit result was repeated, please check.

On the other hand, the methanol and hexane extracts obtained from leaves showed IG<sub>0</sub> values of 1513.30 and 2759.00 µg/mL µg/mL, The authors should be able to provide a comparison of their results with those from other species in other regions.

## 3. INTRODUCTION

The authors should check for typographical errors.

## 4. MATERIALS AND METHODS

### a. Preparation

- i. Can the authors state the reason for combining both the cold and hot macerate together because each extraction process is unique on its own and their yields will be different?
- ii. Can the authors provide the location of Minema?
- iii. The authors should update their reference for the DPPH scavenging method.

## 5. RESULTS

The authors should check the results from the presence of alkaloids in the extracts. (The presence of alkaloids was detected in E1-E6 and E8-E1 (should be E10))

## 6. CONCLUSION

It should be more convincing since this study is unique to the plant species found in Swaziland

General comment: This study is a good one, but the authors need to correct minor mistakes and do thorough editing.