

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.

The work provides very little phytochemical information because a quantitative analysis was carried out. This type of analysis is no longer used or is rarely used.

The title of the work does not match the results. There is no strict phytochemical analysis. The reader expects a table listing specific compounds as well as their concentration. It is recommended to use HPLC or MC-HPLC analysis.

The article does not describe the techniques used for the qualitative detection of the different groups of compounds. Are they colorimetric techniques?

Realizing the antioxidant capacity or activity with a single method is very restrictive. At least two methods should be used to identify different quenching mechanisms for radicals. It is suggested that ORAC antioxidant capacity be performed since it measures the quenching of oxygen radicals (ROS), which are the most abundant in humans.

Care should be taken if further studies are to be performed with the extracts. All extraction solutions used are not suitable for human consumption. It is recommended that food-quality ethanol be used. Also, consumers often drink herbal aqueous infusions.

My recommendation: It is not suitable for publication.