

Review of: "Assessment of Microbiological Quality, Phytochemicals, Trace Elements and Proximate Analysis of Bio-Clean II Herbal Remedy"

Xuefei Tian

Potential competing interests: No potential competing interests to declare.

In general, the line numbers are missing. Makes it difficult to review. Some of the sentences are too complicated. Check the text for grammar. The format of tables should be changed to a better appearance.

INTRODUCTION

1. The introduction part is a bit too long. Please simplify it as the follow logic: Herbal medicine is effective → Microbiological quality needs to be assessed → What is Bio-Clean II → The medical benefits → What is unknown → objectives of this study
2. "However, due to the differences in the quality of different batches of herbal remedies there is therefore a strong need to validate and re-validate the assertions made by the manufacturers of these herbal remedies concerning their microbiological quality amongst other considerations." This sentence is too long. Rewrite.
3. "Since Bio-Clean II like other commercially sold herbal remedies is used orally, it is ..." Rewrite.

RESULTS

1. "In order to understand the scientific reason underpinning the medicinal benefits of Bio-Clean II, the herbal remedy was assessed for its microbiological quality, physicochemical properties, phytochemical constituents, trace elements and proximate analysis." Delete this sentence.
2. "The four batches of Bio-Clean II (100%) examined..." Four or five batches? In the table there are five batches.
3. "Table 2: Physicochemical Characterization of Bio-Clean II" The title should be attached just to the table. The format of all tables can be better.

DISCUSSION

1. "With herbal medicine making significant contribution to modern medical practice Almas et al. (2001), the use of herbal remedy against conventional standard drugs for the purpose of treatment of various ailments is fast becoming a very popular practice among some folks, ..." Too complicated. Check the grammar. Rewrite.
2. "All the samples of Bio-Clean II examined in this study were found to be sterile (No growth). " No bacteria growth? Please specify it.
3. "Most people lack good hand and toilet hygiene after making use of the toilets or after eating and because the human hand harbors a lot of pathogenic bacteria, it becomes a good medium for transfer of bacterial contaminants to whatever that is been handled when not sanitized or washed properly with soap and water (Enitan et al., 2022a)." Too complicated. Check the grammar. Rewrite.
4. "...environmental pollution (that is, contaminated emissions from factories and leaded petrol and contaminated water

including runoff water which finds its way into rivers, lakes and the sea and some pesticides), ..." Delete the content in the brackets.

5. "The antimicrobial activities of these phytochemicals are thought to be related to inhibition of virulence factors, modulation of microbial pathogenesis, interference with some metabolic processes, intercalation into microbial cell wall and DNA, inactivation or destruction of microbial DNA, regulation of gene expression and signal transduction pathways, interference with the phospholipids bilayer of the cell membrane, disruption of the electron flow and active transport leading to increased cellular permeability and loss of cellular constituents, coagulation of cell contents amongst others." Too long. Should separate it into several sentences according to different mechanisms. Add references for each mechanism.