

ReviewForm3

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| JournalName: | EuropeanJournalofMedicinalPlants |
| ManuscriptNumber: | Ms_EJMP_126156 |
| TitleoftheManuscript: | FORMULATIONANDEVALUATIONOFHERBALBASEDHANDSANITIZER |
| TypeoftheArticle | |

PART1: ReviewComments

| Compulsory REVISION comments | Reviewer's comment | Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| <p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p> | <p>This manuscript is significant for the scientific community as it comprehensively addresses the need for effective herbal hand sanitizers, providing valuable insights into their formulation, physical and chemical properties, and rigorous evaluation methods, thereby contributing to public health and the discourse on alternative sanitization methods amidst rising antibiotic resistance.</p> | |
| <p>Is the title of the article suitable? (If not, please suggest an alternative title)</p> | <p>The title of the article, "Formulation and Evaluation of Herbal Based Hand Sanitizer," is suitable as it clearly conveys the focus of the study, which is the development and assessment of a hand sanitizer using herbal ingredients. However, to enhance its specificity and appeal, a more descriptive title could be suggested.</p> | |
| <p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p> | <p>To enhance the manuscript, it is suggested to include a brief background context explaining the advantages of herbal-based sanitizers over chemical ones, along with a clear objective statement or hypothesis for the study. Additionally, a summary of key results, including numerical highlights from in-vitro drug release and stability tests, would provide valuable insights, while practical implications regarding the sanitizer's suitability for various environments should be emphasized. Furthermore, refining ambiguous language</p> | |
| <p>Are subsections and structure of the manuscript appropriate?</p> | <p>The manuscript's structure is generally appropriate but could benefit from minor reorganization for clarity. Specifically, subdividing the Introduction into sections discussing traditional versus herbal sanitizers and grouping Methods by procedure (e.g., Formulation, Extraction, Evaluation) would improve readability. In the Results section, adding clear subsections for each evaluated property and a comparative analysis of formulations would streamline the presentation of findings.</p> | |
| <p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p> | <p>This manuscript appears scientifically robust and technically sound as it provides a thorough methodology for the formulation and evaluation of an alcohol-based herbal hand sanitizer. The procedures for volatile oil extraction, formulation, and physical and chemical evaluations (e.g., pH, viscosity, spreadability, drug content, and in-vitro release) are well-documented and aligned with standard practices, ensuring reproducibility. Additionally, the use of stability studies to assess the sanitizer's durability over time adds</p> | |
| <p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> | <p>The manuscript references appear substantial and cover key aspects of herbal sanitizers, extraction methods, and antimicrobial activity. However, some of the cited studies date back over a decade, with only a few recent sources. To strengthen the scientific relevance, it may be beneficial to include recent studies (from the last five years) on the efficacy of herbal-based hand sanitizers, novel extraction techniques, and comparative studies between herbal and chemical sanitizers. Newer sources can provide updated findings on antimicrobial resistance trends, improvements in extraction processes, and recent advancements in hand sanitizer formulation.</p> | |

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| <p>MinorREVISIONcomments</p> <p>Isthelanguage/Englishqualityofthearticlesuitable forscholarlycommunications?</p> | <p>The language quality is generally appropriate for scholarly communication, but minor grammatical improvements and rephrasing would enhance clarity and professionalism</p> | |
| <p>Optional/Generalcomments</p> | <p>The manuscript is valuable and well-documented, though minor restructuring, language refinement, and the inclusion of recent studies would enhance its readability and scientific relevance</p> | |

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PART 2:

| | Reviewer's comment | Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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|----------------------------------|---|
| Name: | Olufemi Adedayo |
| Department, University & Country | University of Massachusetts, USA |