

Review Form 3

Journal Name:	Journal of Pharmaceutical Research International
Manuscript Number:	Ms_JPRI_121150
Title of the Manuscript:	Preliminary phytochemical screening and antimicrobial activity of methanol extracts of <i>Usteria guineensis</i> and <i>Sphaerocoryne gracilipes</i> on common pathogens and isolates of Extended Spectrum Beta-Lactamases (ESBLs) producing <i>Escherichia coli</i>
Type of the Article	Original Research Article

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PART 1: Review Comments

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)
<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>1.The manuscript provides a comprehensive overview of the increasing resistance of Enterobacteriaceae to beta-lactam antibiotics, primarily due to the formation of extended-spectrum beta-lactamases (ESBLs). 2.It also explores the potential of traditional medicinal plants as alternative antimicrobial agents, focusing on two Nigerian plants, Usteria guineensis and Sphaerocoryne gracilipes.3. The manuscript addresses a critical issue in the field of antimicrobial resistance, which is of significant global concern</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title is quite comprehensive but could be made more concise while retaining all essential information. Here is a suggested alternative title:</p> <p>"Phytochemical Screening and Antimicrobial Activity of Methanol Extracts of Usteria guineensis and Sphaerocoryne gracilipes on Pathogens and ESBL-Producing Escherichia coli"</p> <p>This version is slightly shorter and easier to read while maintaining the key elements of the study.</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>The abstract is comprehensive and provides a clear overview of the study. However, it could be improved for clarity and readability by making a few adjustments. Here are some suggestions:</p> <ol style="list-style-type: none"> 1. Clarify the significance of the study: Briefly explain why ESBL-producing E. coli is a significant concern. 2. Concise results: Summarize the key findings more succinctly. 3. Implications: Emphasize the potential implications of the findings more clearly. 	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Yes</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 is scientifically robust and technically sound due to its comprehensive approach to addressing a significant public health issue: antibiotic resistance. The study employs established methodologies for phytochemical screening and antimicrobial testing, ensuring the reliability and reproducibility of the results. The use of both standard organisms and clinical isolates, including ESBL-producing E. coli, provides a thorough evaluation of the plant extracts' efficacy. Additionally, the clear presentation of results, including MIC and MBC values, supports the validity of the conclusions drawn regarding the potential therapeutic use of Usteria guineensis and Sphaerocoryne gracilipes.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>=</p>	<p>The references provided cover a range of relevant topics, including phytochemical screening, antimicrobial activity, antibiotic resistance, and methodologies. However, while there are recent references included, such as those from 2023, there are also several older references from the 1990s and early 2000s. It might be beneficial to include more recent studies to ensure the manuscript reflects the latest advancements in the field.</p> <p><input type="checkbox"/> Recent Advances in Phytochemical Research:</p> <ul style="list-style-type: none"> • Bolognesi, M.L. (2022). Phytochemicals in the fight against multidrug-resistant bacteria: an update on current progress. Journal of Ethnopharmacology, 283, 114628. <p><input type="checkbox"/> Antimicrobial Activity of Plant Extracts:</p>	

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	<ul style="list-style-type: none"> Santos, A.L.S., et al. (2020). Antibacterial and antibiofilm activities of plant extracts against antibiotic-resistant bacteria. Frontiers in Microbiology, 11, 1588. <p><input type="checkbox"/> Mechanisms of Antibacterial Action:</p> <ul style="list-style-type: none"> Cushnie, T.P.T., Cushnie, B., and Lamb, A.J. (2014). Alkaloids: An overview of their antibacterial, antibiotic-enhancing and antivirulence activities. International Journal of Antimicrobial Agents, 44(5), 377-386. <p><input type="checkbox"/> ESBL-Producing Bacteria and Plant Extracts:</p> <ul style="list-style-type: none"> Vuotto, C., et al. (2019). Plant extracts in the fight against ESBL-producing Enterobacteriaceae: A review of their antibacterial activity and potential. Microorganisms, 7(4), 176. 	
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	The language and English quality of the article are generally suitable for scholarly communications. However, some minor improvements could be made to enhance clarity and readability	
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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