

## Review Form 1.7

Journal Name:	<b>International Journal of Plant &amp; Soil Science</b>
Manuscript Number:	<b>Ms_IJPSS_105028</b>
Title of the Manuscript:	<b>GCMS, FTIR and NMR analysis of chloroform extract of Azadirachta indica</b>
Type of the Article	

### **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalijpss.com/index.php/IJPSS/editorial-policy> )

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### PART 1: Review Comments

	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)
<p><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript explores <i>Azadirachta indica</i> as a valuable source of bioactive compounds for combating plant diseases while addressing concerns about chemical side effects. Through advanced techniques like GC-MS, FTIR, and NMR, the study identifies key antibacterial chemicals and underscores the plant's potential for developing eco-friendly antimicrobial solutions in agriculture.</p> <p>Yes</p> <p>Yes</p> <p>Yes. But, can be improved.</p> <p>Yes</p> <p>Yes</p> <p>1. Clarify Methodology Details: Provide more comprehensive explanations of the methodology used for each analysis (GC-MS, FTIR, NMR), including experimental setups, instruments used, sample preparation, and data processing. This will enhance the reproducibility of the study for other researchers.</p> <p>2. Detailed Data Presentation: Present raw data, spectra, chromatograms, or graphs from each analysis (GC-MS, FTIR, NMR) in the Results section. This will allow readers to visually understand the findings and support the conclusions drawn from the study.</p> <p>3. Discussion on Compound Identification: Discuss the methods used to identify the identified compounds from GC-MS, FTIR, and NMR analyses. Provide references or comparisons to existing literature to support the identification of these compounds and their potential pharmacological effects.</p> <p>4. Expand Discussion on Pharmacological Effects: Elaborate on the potential pharmacological effects of the identified compounds, specifically how they can contribute to the reported antibacterial, antifungal, and other bioactive properties. Relate these findings to existing literature and discuss their significance for practical applications.</p> <p>5. Contextualize Findings: Place your study's findings within the broader context of current research in the field of bioactive compounds and plant-based biocontrol agents. Discuss how your findings contribute to the existing knowledge and address the current challenges in plant pathology.</p> <p>Remember, a major revision typically involves addressing substantial concerns, refining the clarity of explanations, providing more comprehensive analysis, and strengthening the connection between your findings and their implications.</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>1. Abstract Clarity: Clarify the abstract by providing more specific details about the research objectives, methods, key findings, and implications. This will help readers quickly grasp the essence of your study.</p>	

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	<p>2. Keywords Enrichment: Consider adding a few more relevant keywords to the list, as this will enhance the discoverability of your manuscript in relevant databases.</p> <p>3. Introduction Flow: Ensure a smooth flow in the introduction by clearly indicating the transition from the general importance of biocontrol agents to the specific focus on <i>Azadirachta indica</i>. This will provide better context to readers.</p> <p>4. Methodology Details: Provide more concise but comprehensive descriptions of the methodologies used for GC-MS, FTIR, and NMR analyses. Include any specific parameters, solvents, equipment, and software used, enhancing the reproducibility of the study.</p>	
<b>Optional/General</b> comments	None	

### **PART 2:**

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

### **Reviewer Details:**

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