

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Research in Biochemistry</a>
Manuscript Number:	Ms_AJRB_126983
Title of the Manuscript:	Phytochemical Profile and Bioactive Compounds in Aqueous Leaf Extract of Anacardium occidentale: A GC-MS Analysis
Type of the Article	Research Article

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **Important Policies Regarding Peer Review**

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#### PART 1: Review Comments

<b>Compulsory</b> REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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.	This manuscript holds significant importance for the scientific community as it offers a comprehensive analysis of the phytochemical profile of <i>Anacardium occidentale</i> , a plant with deep-rooted traditional medicinal applications. By identifying bioactive compounds like $\gamma$ -Terpinene, Securinine, and dl- $\alpha$ -Tocopherol through GC-MS, this study bridges the gap between traditional knowledge and modern science, providing a foundation for the development of plant-based therapeutic agents. The study also highlights the potential of natural products in combating oxidative stress-related diseases, underscoring the broader relevance of phytochemicals in addressing global health challenges. I appreciate this manuscript for its methodical approach and its contributions to natural product drug discovery, reinforcing the value of plants in modern medicine.	
Is the title of the article suitable? (If not please suggest an alternative title)	YES	
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.	YES	
Are subsections and structure of the manuscript appropriate?	YES	
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.	This manuscript is scientifically robust and technically sound, as it employs well-established methods for phytochemical analysis, specifically the use of GC-MS, which is highly regarded for its sensitivity and accuracy in identifying chemical compounds. The experimental design is clear and systematic, with detailed protocols for plant material preparation, extraction, and compound identification, enhancing reproducibility. Furthermore, the study carefully references previous research, integrating known bioactivities of identified compounds with newly observed results, which strengthens the validity of its conclusions. The manuscript's adherence to standard methodologies and its thorough data presentation ensure its scientific correctness, making it a valuable contribution to phytochemistry and pharmacology.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -	YES SUFFICIENT	
<b>Minor</b> REVISION comments	YES	
Is the language/English quality of the article suitable for scholarly communications?		
<b>Optional/General</b> comments		

#### 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>
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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