

Review Form 3

Journal Name:	Asian Journal of Research in Crop Science
Manuscript Number:	Ms_AJRCS_127885
Title of the Manuscript:	Sustainable Grain Protection: Combatting Rice Weevils (<i>Sitophilus oryzae</i>) with Natural Plant Powders
Type of the Article	

PART 1: 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. A minimum of 3-4 sentences may be required for this part.	<p>Scientific activity focuses on knowledge extraction and generation for sustainable society, addressing social order, food safety, and inequality reduction. Food poisoning is a major global issue, and people have been preserving food since ancient times.</p> <p>Global society relies on transportation, agriculture, and technology, but food loss due to storage bugs, like rice weevils, is a significant issue in tropical latitudes, with diverse coleopteran groups contributing to damage.</p> <p>The rice weevil is a major pest in stored food, targeting cereals like corn and rice. While insecticides can be used, improper use can pollute the environment, develop resistance in insects, and cause health issues in humans.</p> <p>The study uses a biotechnological approach to reduce hazards associated with using physical-chemical agents like plant powders for controlling rice pest populations.</p>	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title of the article is suitable	
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, the abstract of the article is comprehensive	
Is the manuscript scientifically, correct? Please write here.	<p>Yes, the manuscript is scientifically, correct</p> <p>Rice weevils are major global pests affecting stored grains, damaging larvae and destroying facilities. Chemical pesticides cause residues and resistance, leading to customer dissatisfaction. Alternatives like biological control agents, sound waves, and plant essential oils are being explored.</p> <p>Natural powders inhibit insects, providing effective protection even when heated. However, there is no scientific assessment of their antibacterial activity, nutritional preservation capacity, food interaction, or encapsulation on rice weevils.</p>	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	<p>Yes, the references are sufficient and recent</p> <p>References were found to be adequate and up-to-date.</p>	
Is the language/English quality of the article suitable for scholarly communications?	Yes, the language/English is quality of the article suitable for scholarly communications	
<u>Optional/General</u> comments	<p>Although the idea behind the paper is not new, it must be maintained and improved to stay current with new methods and developments in biological control related to crop security in the field and warehouse to protect countries' economies.</p> <p>Additionally, I would like to point out that the manuscript's grammar and spelling are both excellent. Additionally, the references have a DOI number and are well-written.</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>
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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