

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_128806
Title of the Manuscript:	Degradation pattern and residues of atrazine in maize under long term conservation agriculture
Type of the 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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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.	Maize is one of the most important crops in the world. Studies on degradation and residue analysis is important in order the understand the efficacy of atrazine and its environmental fate. In addition, this investigation on application of atrazine is significant not only in the scientific community, but also in the society.	
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, it discusses the relevant abstract details. Include the variety of maize studied. Be consistent of spacing between a value and unit (e.g. 3 DAS). Include persistence value (days after herbicide application), e.g., 75 days.	
Is the manuscript scientifically, correct? Please write here.	Yes, scientific procedures have been followed. However, point out the difference of your study with similar studies, as follows: Tandon, S. & Singh, A. (2015). Field dissipation kinetics of atrazine in soil and post-harvest residues in winter maize crop under subtropical conditions: Chemistry and Ecology: Vol 31 , No 3 - Get Access. https://doi.org/10.1080/02757540.2014.950567 Correct Spelling of Whatman (not whatman) In the residue extraction, change "The upper organic layer was collected separately." to "The upper organic layer (hexane fraction) was collected separately." HPLC parameters for atrazine detection were only mentioned, but there is no statement leading to injection of sample, etc. Include them in the procedure. The paper should be understandable all throughout, expand some acronyms in the first paragraphs where they appear.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	References cited are not sufficient. There are recent articles related to this study, which should have been cited, as follows: Evaluation of agricultural soil health after applying atrazine in maize-planted fields based on the response of soil microbes. 2024. Evaluation of agricultural soil health after applying atrazine in maize-planted fields based on the response of soil microbes - ScienceDirect. https://doi.org/10.1016/j.apsoil.2023.105157 Advances in understanding and mitigating Atrazine's environmental and health impact: A comprehensive review. 2024. Advances in understanding and mitigating Atrazine's environmental and health impact: A comprehensive review - ScienceDirect. https://doi.org/10.1016/j.jenvman.2024.121530 . Conservation agriculture improves soil health and sustains crop yields after long-term warming. 2024. Conservation agriculture improves soil health and sustains crop yields after long-term warming Nature Communications. https://doi.org/10.1038/s41467-024-53169-6. Conservation Agriculture: A Long-term Approach towards Sustainability. 2023. (12) (PDF) Conservation Agriculture: A Long-term Approach towards Sustainability. 10.9734/IJECC/2023/v13i102625	
Is the language/English quality of the article suitable for scholarly communications?	Yes, the language is English and scientifically sound.	
Optional/General comments	Point out the difference of your study with similar studies on atrazine. Please ensure the points/suggestions given above are followed to make the study more conclusive, comprehensive and up-to-date	

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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