

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_130208
Title of the Manuscript:	Comparative Efficacy of deuterium (D2O) and Alum as an adjuvant in shelf life of HS vaccine.
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.	This manuscript addresses a critical issue in vaccine preservation, particularly focusing on the comparative efficacy of deuterium (D2O) and alum as adjuvants in extending the shelf life of hemorrhagic septicemia (HS) vaccines. By exploring alternatives to traditional cold chain methods, the study offers valuable insights that could enhance vaccine stability and accessibility, particularly in resource-limited settings. The findings have the potential to influence public health initiatives by improving vaccination strategies against HS in cattle and buffaloes, which are economically significant in many regions. Overall, this work contributes to the ongoing efforts to optimize vaccine formulations, thereby advancing veterinary medicine and animal health.	Effected
Is the title of the article suitable? (If not please suggest an alternative title)	The title "Comparative Efficacy of Deuterium (D2O) and Alum as an Adjuvant in Shelf Life of HS Vaccine" is suitable but could be made more concise. A suggested alternative title could be: "Comparative Efficacy of Deuterium and Alum as Adjuvants to Enhance the Shelf Life of Hemorrhagic Septicemia Vaccines."	Title revised
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.	The abstract provides a general overview of the study but could benefit from additional details regarding the methodology and specific outcomes. It would be helpful to briefly mention the experimental design, key findings, and implications of the results. I suggest including a summary of the results demonstrating the effectiveness of deuterium compared to alum in preserving vaccine efficacy.	Noted
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientifically correct, with a well-structured methodology and appropriate statistical analysis. However, it would benefit from a more detailed discussion of the implications of the findings and how they compare with existing literature on vaccine preservation	Ok
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references cited are relevant and provide a solid foundation for the study. However, some references may not be the most recent. It would be advisable to include more recent studies (within the last 5 years) related to vaccine stability and the use of deuterium in vaccine formulations to strengthen the literature review	Added revision

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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 communication. However, there are areas where clarity can be improved through careful editing for grammatical accuracy and flow. I have highlighted some, Addressing these issues will enhance the manuscript's readability and professionalism	Ok
<u>Optional/General</u> comments	Overall, the manuscript presents valuable research that could significantly contribute to the field of vaccine preservation. Addressing the above comments will improve its quality and impact.	

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?	(If yes, Kindly please write down the ethical issues here in details)	