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REVIEWER'S REPORT

Manuscript No.: **IJAR-53732** Date: Sep 9, 2025

Title:
Evaluation of Buffering Capacity of Novel Multi-Component Buffer (CRB Advance) 1 Against Traditional Rumen Buffers in Dairy Cows

Recommendation:
Accept as it is .....
✓Accept after minor revision.....
Accept after major revision .....
Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance		✓		

Reviewer Name: **Dr Matin Shakoori** **Date:** Sep 9, 2025

Reviewer's Comment for Publication.
The manuscript presents relevant and practical findings on rumen buffering strategies, with clear evidence of the superior performance of CRB Advance. While the sample size is limited and the discussion could benefit from more statistical detail, the study addresses an important issue and provides useful insights. After minor revisions, the paper is suitable for publication.

Recommendation: Accept after minor revision

Detailed Reviewer's Report

Strengths of the Manuscript

1. The study addresses a highly relevant and practical topic in ruminant nutrition, with direct implications for the health and productivity of high-yielding dairy cows.
2. The results are clearly presented, showing the superior buffering capacity of CRB Advance over conventional buffers with systematic pH monitoring over 24 hours.

Suggestions for Improvement

1. The sample size is very limited (only two cows per group), which restricts the statistical power of the findings. Increasing the number of animals or replicating the trial would strengthen the conclusions.
2. The discussion should include broader comparisons with previous studies and provide statistical details (e.g., significance levels) to enhance the scientific rigor of the manuscript.