

# Review of: "Effect of Bromide on Livestock Development"

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**Potential competing interests:** No potential competing interests to declare.

The paper "Effect of Bromide on Livestock Development" aims to elucidate the potential effects of bromide on thyroid hormone functioning and the associated risks of bromide exposure and ingestion for livestock. It contributes valuable insights into the biological roles and toxicity of bromide, particularly its impact on thyroid hormone disruption and organ development in livestock. The strengths of the paper include its comprehensive literature review, the integration of both historical and recent data, and the emphasis on the significance of bromide in environmental and physiological contexts.

The paper falls well within the scope of the journal, as it addresses the crucial intersection of environmental toxicology and livestock development, providing relevant insights into the impact of bromide exposure on animal health.

Specific comments:

The paper needs to ensure clear and consistent definitions of terms, especially scientific terms such as "thyroid hormone disruptors" and "water quality constituents."

The abstract should more succinctly summarize the key findings and implications of the study.

The literature review section could be expanded to include more recent studies and a broader range of sources. This would provide a more comprehensive context for the research findings.

The analysis of bromide's effect on thyroid hormones and livestock development is superficial in parts. More detailed explanations of the mechanisms through which bromide impacts these biological systems are needed.

The methods section lacks sufficient detail in order to repeat the trial. More information on the methodology would improve the replicability and credibility of the study.

The presentation of data is sometimes unclear. Figures and tables should be better integrated into the text, with more thorough explanations of what they show and how they support the paper's conclusions.

The discussion section could better explore the broader implications of the findings for livestock management and public health. This section should also address potential limitations of the study and suggest areas for future research.

I recommend incorporating a discussion paragraph highlighting the significance of educating future veterinarians, technicians, and farmers about the issues addressed in the paper. Emphasizing the importance of effective teaching methods in shaping knowledgeable students and proficient veterinarians would add depth to the paper's implications. It is

advisable to refer to recent publications on veterinary education to provide up-to-date insights into best practices in preparing future professionals to address the challenges discussed in the paper. Please see: [10.1016/j.jevs.2023.104537](https://doi.org/10.1016/j.jevs.2023.104537) and [10.3390/ani13223503](https://doi.org/10.3390/ani13223503).

There are several grammatical errors and stylistic issues throughout the paper. A thorough proofreading and editing process is necessary to ensure the manuscript meets the journal's standards.

The conclusion should be more concise and clearly highlight the main takeaways from the research.