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Evaluating flushing procedures to prevent nicarbazin carryover during medicated feed manufacturing

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Highlights

- Using 5 to 10% of the mixer's capacity as the flush material was effective.
- All treatments prevented significant drug carryover.
- The bucket elevator and finished product bin were the major sources of carry over.

Abstract

Carryover of medicated feed additives between batches of feed can potentially result in harmful drug residues in the edible tissues of food-animals. Flushing the equipment with an ingredient, such as ground grain, is one method used to remove any residual medicated feed from the system. It is generally recommended that the quantity of flush used be between 50 and 100 g/kg of the mixer's capacity. However, there is little data that supports this recommendation. Therefore, an experiment was conducted to determine the minimum quantity of flush material required to prevent drug carryover; and to quantify the interrelationship between flush size and

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