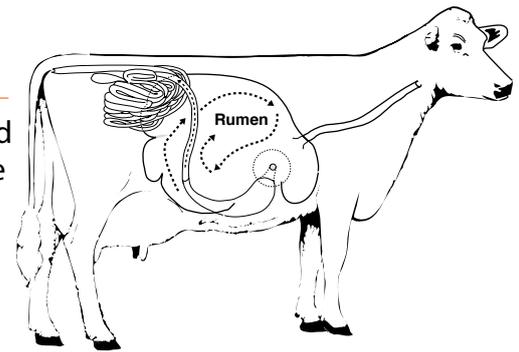


The Complete Buffering Solution

Z·buff

A natural buffering supplement designed both as a buffer and antacid for dairy and beef rations. Due to its unique profile, Z-buff is effective at a broad range of pH levels, stabilizing rumen and intestinal pH throughout the day.



The Challenge

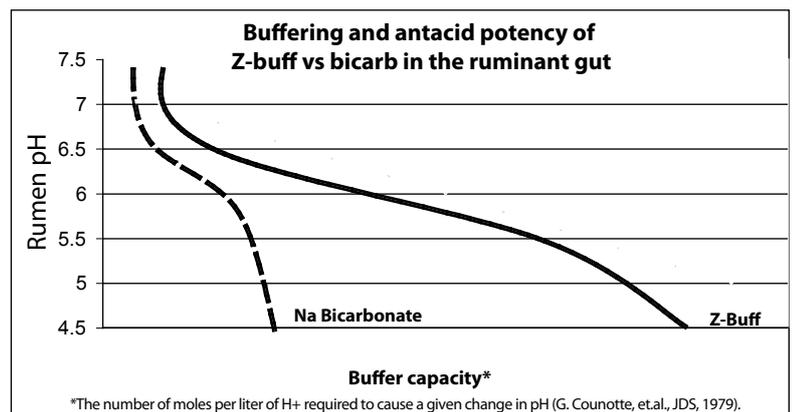
Acidosis is a prevalent problem in high producing herds. This is due to high production and build-up of VFA's and lactic acid within the rumen of cows fed high concentrate rations. This will cause a reduction of ruminal pH (less than 5.8) that will create problems like reduced dry matter intake, mild diarrhea, reduced milk production, and laminitis in high producing cows. Furthermore, acid build-up in the rumen can affect the small intestine by altering the pH required for optimal nutrient digestion.

The Complete Buffering Solution

Unlike the more traditional buffering agents like bicarb, Z-buff has a broad buffering and antacid range that prevents and controls acidosis in both the rumen and small intestine, improving overall feed digestibility.

Buffering and antacid potency of different supplements in the ruminant gut

	Rumen	Intestine
Bicarb	++	-
Z-buff	++++	++



Defeat acidosis and help your herd produce at their peak by using Z-buff to stabilize gut pH and improve feed digestibility

Z Benefits Expected with Z-buff

- Stabilized rumen and intestinal pH
- Improved dry matter intake
- Improved feed digestibility
- Improved feed efficiency
- Improved milk production
- Improved butter fat

Z Additional Benefits

- Z-buff is also an effective source of Calcium and Magnesium when used as a buffering agent.
- Typical buffers like sodium bicarbonate and other sodium based buffers will many times provide an overload of Sodium to the animal. The excess Sodium will be excreted affecting soil quality and can eventually become a serious environmental issue. Z-buff is only 1/3 the level of Sodium as straight sodium bicarbonate or sesquicarbonate.

Z Recommended Use Rates

Feed at 0.5 lbs. / cow / day for dairy cattle.
½ oz / 100 lbs. of body weight for beef cattle and heifers.
No negative effects or contradictions at proper dosages.
Product should be stored in cool and dry area.

Z-buff is not intended to be used as a substitute for good feeding management but can play a role in reducing the risk of acidosis due to low fiber and / or high grain diets.

Ask your nutritionist if Z-buff can have a fit in your feeding program.