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CALCIUM BOLUS COMPARISON

The differences and similarities between MB Nutritional Sciences' calcium boluses

Composition	FRESHCAL	CAL FRESCA	FRESHCAL-ER	CAL FRESCA-ER
Immediate Release Bolus	YES	YES	YES	YES
Extended Release Bolus	NO	NO	YES	YES
Immediate Release Bolus, hours[1]	0.5 to 1 hr	0.5 to 1 hr	0.5 to 1 hr	0.5 to 1 hr
Extended Release Bolus, hours[1]	N/A	N/A	Linear 24 - 72 hr	Linear 24 - 96 hr
Calcium Sources[2]	Chloride/Sulfate	Chloride/Sulfate	Chloride/Sulfate	Chloride/Sulfate
Total Calcium, (grams / dose)	50	43	75	86
Vitamin D_3	YES	YES	YES	YES
Niacin	YES	NO	YES	NO
Beta Glucans	YES	NO	YES	NO
Bolus Size (boluses / dose)	Small (4)	Large (1)	Small (6)	Large (2)

[1]See back side for bolus release kinetics.

[2]Calcium Chloride is absorbed into blood quickly, within 1 hour. Calcium Sulfate is absorbed slower, within 4-6 hours. Therefore, Calcium Sulfate is not considered an extended source of calcium.

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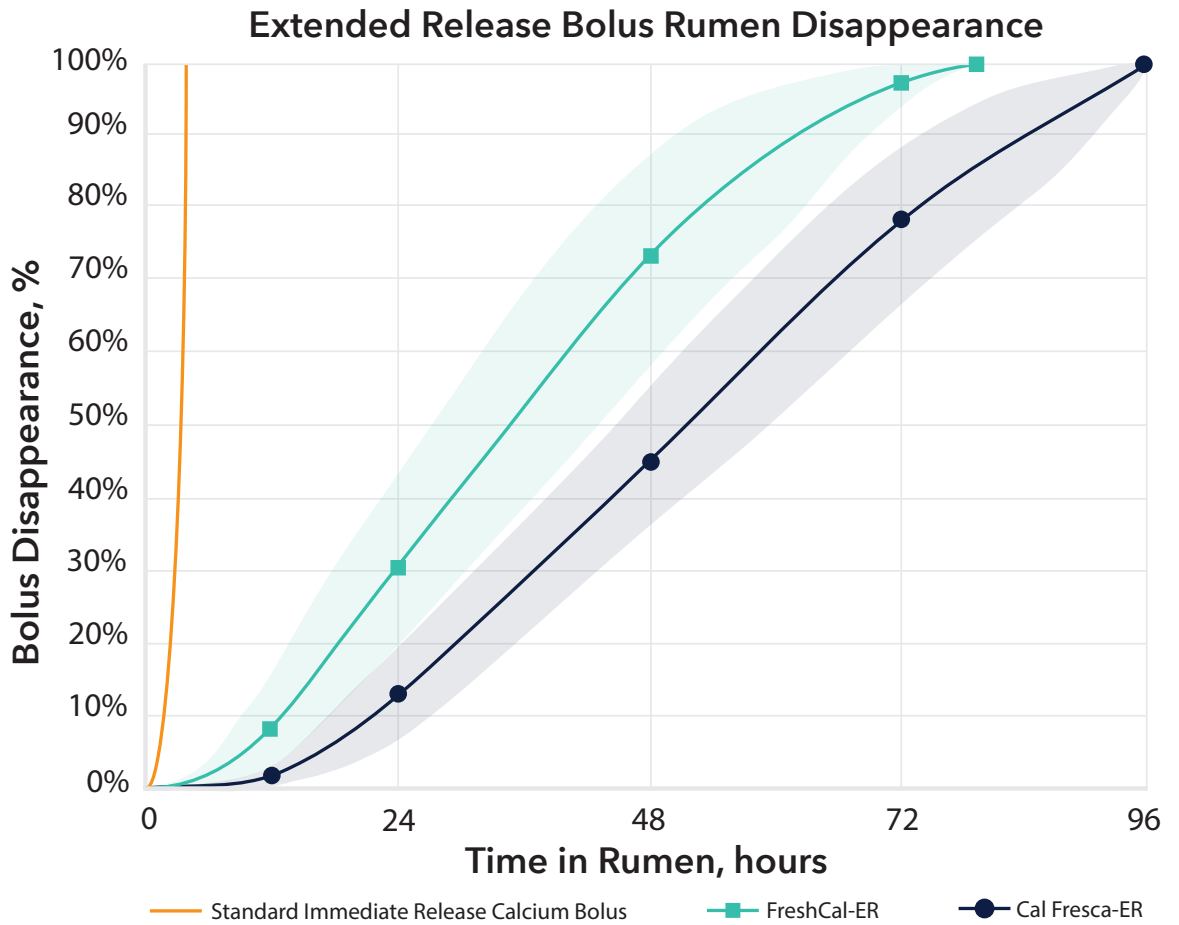
Persistent Low Blood Calcium on Days 2 – 4 in Milk Are Associated with:

- Increased Risk of Culling in the 1st 60 days in milk by 300%[1]
- Increased Risk of Infectious or Metabolic Diseases by 310 to 610%[2]
- Reduced Milk Production[2]

[1]Menta et al. 2021; J. of Dairy Sci.
[2]Neves et al. 2018; J. Dairy Sci.

Extended Release (ER) Calcium Boluses from MB Nutritional Sciences uses a Patented Coating Technology to:

- Delay the release of the calcium bolus
- Release the calcium linearly from 24 hours up to 96 hours
- Administer both a Quick Release and Extended Release bolus on the day of calving. You do not have to find your livestock again to give a 2nd dose!



*Data are reported from the in situ disappearance of the different calcium boluses in ruminally fistulated cows. Bolus disappearance was measured by loss of initial mass over time. Shaded area shows the 95% confidence interval.

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