

**THE CALCIUM
SHE COUNTS ON.
NO FILLERS.**

**BOVIKALC® SUPPLEMENTS PROVIDE THE
RIGHT CALCIUM FOR HER PERFORMANCE —
WITHOUT FILLER INGREDIENTS.**

BOVIKALC®
calcium supplement

PROTECT HER POTENTIAL.

CALCIUM NOW, CALCIUM DOWN THE LINE. A FRESH COW NEEDS BOTH.

Some oral calcium supplements contain vitamin D, niacin and other fillers. The Bovikal[®] bolus contains no added ingredients – just calcium chloride for rapid absorption, calcium sulfate for sustained release, a small amount of water, and a fat coating for easy and safe swallowing and digestion.



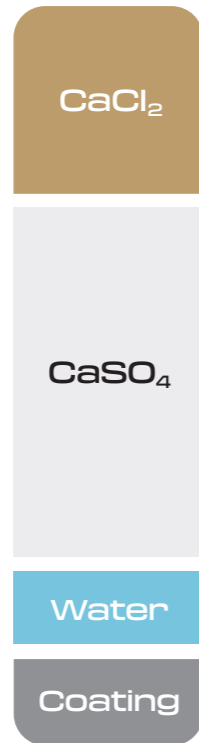
BOVIKALC[®]
calcium supplement

BOVIKALC[®]

1. Calcium chloride (CaCl₂) – rapid absorption
2. Calcium sulfate (CaSO₄) – sustained release

WITH BOVIKALC[®], YOU GET:

- The right calcium needed to fight subclinical hypocalcemia.²
- No added ingredients.
- A bolus that dissolves completely within 30 minutes after arriving in the rumen.⁴
- A fat coating that includes xanthan gum for easier swallowing and safety.
- Custom applicator, created specifically for BOVIKALC boluses
- Support and technical expertise from a worldwide animal health company



IMITATORS

OTHER BOLUSES

1. Unknown grades and sources of calcium
2. Unneeded filler ingredients that aren't proven to help, and may even hinder, calcium absorption:
 - Vitamin D
 - Niacin
 - Magnesium
 - Phosphorus
 - Yeast
3. May or may not have a coating

WITH OTHER BRANDS, YOU GET:

- A lot of flash, but little necessary substance.



StartWithBovikal.com

Scan to learn more, or talk to your Boehringer Ingelheim sales representative.

THE RIGHT SALTS

BOVIKALC boluses contain the right calcium salts your cattle need.² Competing oral calcium supplements may have neutral salts and alkalogenic salts – neither of which may be available at the right time to your animals.

NEUTRAL SALTS, LIKE CALCIUM PROPIONATE AND CALCIUM LACTATE, CAN CAUSE THE FOLLOWING ISSUES^{1,2,3}:

- Provide no additional mobilization of calcium
- They're glucogenic, meaning they can elevate blood glucose levels at a time when cows are already hyperglycemic
- Commonly administered as a drench, posing a safety hazard

ALKALOGENIC SALTS, LIKE CALCIUM CARBONATE AND CALCIUM HYDROXIDE, HAVE THE FOLLOWING ISSUES^{1,2,3}:

- They're regarded as insoluble in rumen fluid
- Unsuitable for recently fresh cows
- Cause an alkaline response that impairs a cow's ability to mobilize calcium

BOLUS	BOVIKALC ^{®5}	TRANSITION [™] CALCIUM BOLUS ⁵	QUADRICAL [®] AC ⁵	FIRST CHOICE ⁵	RUMILIFE [®] CAL24 ^{™ 5}	YMCP VITALL ^{®5}	CAL-EVATE [™] / OPTICALC ^{™ 5}	CMPK BOLUS ⁵
MANUFACTURER	BOEHRINGER INGELHEIM	MAI ANIMAL HEALTH	BIO-VET	FIRST CHOICE	GENEX	TECHMIX	VETONE MWI / AHI	DURVET
Calcium Chloride	x	x	x	x	x	x	x	
Calcium Sulfate	x		x	x			x	
Calcium Propionate		x	x (preservative)					
Calcium Carbonate		x			x (CalMin)	x		x
Calcium Lactate			x					
Dicalcium Phosphate								x
Fat Coating	x (palm oil)			x (vegetable based wax)	x (soybean oil)		x (waxy triglyceride)	
Xanthan Gum	x						x	
Other		Vitamin D			Vitamin D, Mg Oxide	Potassium Chloride, Vitamin E, Citric Acid, Yeast, Mg Sulfate, Mg Stearate	Vitamin D	Mg Oxide, Vitamin E, Potassium Chloride, Vitamin D, Mg Stearate
Protocol	1st bolus immediately after calving, 2nd bolus 12–24 hours after calving	Two 88g or one 176g bolus immediately after calving and again 12 hours later	3 boluses at calving time. Repeat 12 to 24 hours later as needed	One bolus prior to or immediately following calving. Give 2nd bolus 12 hours later	Give one package of 2 boluses immediately following calving	Give 2 boluses immediately after calving. Another 2 boluses may be given 12 to 24 hours later	1st bolus immediately after calving, 2nd bolus 12–24 hours after calving	One to two boluses per day for daily supplementation
Grams of Calcium per Bolus	43g	44g	18g	50g	50g	22.4g	43.1g	3.5g



MILKING GREATNESS

REFERENCES:

- ¹ Goff JP. Macromineral physiology and application to the feeding of the dairy cow for prevention of milk fever and other periparturient mineral disorders. *Anim Feed Sci Technol* 2006;126(3-4):237-257.
- ² Goff JP and Horst RL. Oral administration of calcium salts for treatment of hypocalcemia in cattle. *J Dairy Sci* 1993;76(1):101-108.
- ³ Goff JP, Ruiz R and Horst RL. Relative acidifying activity of anionic salts commonly used to prevent milk fever. *J Dairy Sci* 2004;87(5):1245-1255.
- ⁴ Data on file at Boehringer Ingelheim.
- ⁵ BOVIKALC[®], TRANSITION[™], QUADRICAL[®], FIRST CHOICE, RUMALIFE[®], YMCP VITALL[®], CAL-EVATE[™], OPTICALC[™] and CMPK Bolus product labels.

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