

# Bova-Pro<sup>®</sup>

Greg Highfill

Bova-Pro<sup>®</sup> in bolus form (sold by Bio-Vet, Blue Mounds, WI) can be given to cattle 10 days prior to feeding high nitrate forages to reduce the nitrite concentration in the blood by up to 40 percent. The product can be helpful in borderline high-nitrate cases where producers are seeking additional insurance against nitrate toxicity. This is a quality product that produces the advertised results but does not supply an instant reprieve against all nitrate issues.

- Developed, Researched, Patented by OSU 1987 – 1993
- Active ingredient is *Propionibacterium acidipropionici* strain P5
- *Propionibacterium acidipropionici* strain P5 reduced both nitrate and nitrite levels in the rumen. Nitrates & nitrites are both present during rumen fermentation.
- Bova-Pro<sup>®</sup> must be established in the rumen prior to consuming high nitrate feed
- Establishment period is generally considered about 10 days
- Bova-Pro<sup>®</sup> reduces the nitrate – nitrite levels by approximately 40%
  - Is not a “Silver Bullet”
  - Does not take away all nitrate risk – just adds some insurance
  - Can be utilized with other nitrate reducing management measures

Bova-Pro <sup>®</sup> Product	CFU Colony Forming Units per capsule	Dose	Cost per unit	Cost per Capsule	Cost per Head
Cattle Capsules 128 count	2 Trillion	1 per beef cow 2 per dairy cow	\$3,425	\$26.76 \$26.76	\$26.76 \$53.52
Cattle Capsules 40 count	2 Trillion	1 per beef cow 2 per dairy cow	\$1,075	\$26.76 \$26.76	\$26.76 \$53.52
Stocker Capsules 50 count	500 Billion	2 per calf < 500 lb 4 per calf > 500 lb	\$380	\$ 7.60 \$ 7.60	\$15.20 \$30.40
Concentrate Form – 1 kg bag	100 Billion (per gram)	<u>Divided into 10 day feeding</u> Stocker –20 gram Beef cow – 20 gram Dairy cow – 40 gram	\$1,275	\$1.275 per gram	\$25.50 \$25.50 \$25.50

Summary: A number of factors related to plant nitrate levels, environmental conditions, feeding rates, and rumen tolerance can impact a potential nitrate disorder. Understanding these issues is critical for developing good management practices to avoid the deleterious effects of acute and subclinical nitrate toxicity. The use of Bova-Pro<sup>®</sup> could be a useful management tool to assist cattle producers during the feeding of drought-stressed high-nitrate forages.



**Suggested Retail Price**

Effective August 1, 2014

Product Name / Description	Product Code Number	Price Per Unit	Units Per case	Shipping wt. per Case (lb)	Notes
P5 STOCKER CALF CAPS (Bova-Pro) - 50 Count Jar CUSTOM	CUS-00004	\$ 380.00	12	12	New
P5 CATTLE CAPSULES (Bova Pro) - 40 Count Jar CUSTOM	CUS-00003	\$ 1,075.00	12	26	
P5 CATTLE CAPSULES (Bova Pro) - 128 Count CUSTOM	CUS-00001	\$ 3,425.00	2	20	
P5 Concentrate (Bova Pro) - 1 kg pouch CUSTOM	CUS-00002	\$ 1,275.00	2	6	

***Bio-Vet Home Office***

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