

Bova-Pro[®]

Greg Highfill

Bova-Pro[®] 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[®] must be established in the rumen prior to consuming high nitrate feed
- Establishment period is generally considered about 10 days
- Bova-Pro[®] 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[®] comes in 2 forms:
 - Capsules – one bolus administered to cattle over 500 pounds
 - Cost – 128 count case = \$1,100.00 or \$8.60 per head
 - Case orders only direct from the company
 - Some local companies may buy cases and sell smaller lots
 - Concentrated Powder Feed Additive – 100 billion colony forming units/gram
 - 4 grams/day for 10 days = 40 grams (Beef Cows) or 2 grams/day (Stockers)
 - Cost – 1 kg bag = \$410.00 or \$.41 per gram or \$16.40 per head (Cows)

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[®] could be a useful management tool to assist cattle producers during the feeding of drought-stressed high-nitrate forages.





Retail Pricing for CUSTOM strain P5

<u>Product Description</u>	<u>Product Number</u>	<u>Price</u>
Strain P5 Cow Capsules – 128 count box	CUS-00001	\$1,100.00
Strain P5 Concentrate Powder – 1 kg bag	CUS-00002	\$ 410.00

Bio-Vet Home Office

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