



Bio-Vet Products: features and benefits

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RumenAider® Capsules for Adult Cattle



Nutritional / microbial supplement. Provides vitamins, chelated trace minerals, rumen and intestinal bacteria, yeast, enzymes, kelp, fructooligosaccharides and yeast cell walls.

KEY FEATURES

- ✓ RumenAider® now contains Bio-Vet's proprietary blend of rumen Propionibacteria
 - 24 billion CFU's in each capsule
- ✓ Live yeast
 - Promote rumen fermentation and appetite
- ✓ Digestive Enzymes - 100,000 units / capsule
 - Aid rumen digestive process
- ✓ 5 species of intestinal bacteria
- ✓ Patented Capsule-in-a-Capsule®* packaging system protects live microbial cultures
- ✓ Superior microbial stability compared to other mixed nutritional, microbial products
- ✓ Two university studies show RumenAider® contains over 5 times more total live lactic acid producing bacteria than other leading brands tested*
- ✓ 6,000 mg of niacin and other B vitamins
- ✓ Highly available vitamins and chelated trace minerals important for immune function
- ✓ Fructooligosaccharides and yeast cell walls- help beneficial bacteria
- ✓ Fast acting gelatin capsule dissolves rapidly (~ 6 - 8 minutes)

*Data on file at Bio-Vet, Inc.

BENEFITS

- ✓ Digestive and nutritional support at receiving, post calving, during transition, during shipping or handling, for off feed cattle and cattle receiving veterinary treatment

It's in there ... and it's working!

Inner capsule protects
microbials from degradation



Patented Capsule-in-a-Capsule® packaging system assures contained beneficial microbials are separated and protected from nutritional components.

*- Bio-Vet, Inc. U.S. Patent #5,310,555 & #5,501,857 ©Copyright Bio-Vet, Inc.



PRODUCT CODE	PACKAGING
GN-102	40 capsule jar (12 jars/case)
GN-152	128 capsule box (4 boxes/case)
GN-156	640 capsule bulk box (1 bulk box/case)

RumenAiderCaps_08182015



QuadriCal® Calcium bolus



Calcium supplement for adult cattle. QuadriCal® Calcium Boluses provide a balance of rapid and sustained availability calcium that helps better maintain blood calcium levels at calving.

KEY FEATURES

- ✓ Rapidly available calcium sources that are typically lacking in most 'slow release' calcium or CMPK boluses
- ✓ Sustained availability calcium often lacking in gel tubes and drenches, without the mess or risk of aspiration
- ✓ Vitamin D3, critical for calcium utilization in the body
- ✓ QuadriCal® Calcium Boluses provide niacin to aid liver function during negative energy balance
- ✓ Contains propionate that cows can utilize for energy
- ✓ Convenient & easy application!
 - Smaller bolus than leading competitor
 - Rounded profile for smooth, safe and easy administration with our 32mm V.3 Balling Gun



BENEFITS & APPLICATIONS:

- ✓ Nutritional supplement for dairy cows at calving to maintain blood calcium
- ✓ Easy to use
- ✓ No mess, as can sometimes be the case with gels and drenches

For best results, use in conjunction with RumenAider® or Rumacin™ Capsules for Cattle



PRODUCT CODE	PACKAGING
GN-00173	Individual application (3 boluses) in sealed, poly pack (6 packs per box) (8 boxes/case)
GN-00174	Individual application (3 boluses) in sealed, poly pack (40 packs per box) (1 box/case)
GN-00175	Individual application (3 boluses) in sealed, poly pack (80 packs per box) (1 box/case)

QuadriCal1172014



QuadriCal® MINI Calcium bolus



QuadriCal® benefits in a slender profile

Calcium supplement for adult cattle. QuadriCal® MINI Calcium Boluses provide a balance of rapid and sustained availability calcium that helps better maintain blood calcium levels at calving.

KEY FEATURES

- ✓ Rapidly available calcium sources that are typically lacking in most 'slow release' calcium or CMPK boluses
- ✓ Sustained availability calcium often lacking in gel tubes and drenches, without the mess or risk of aspiration
- ✓ Vitamin D3, critical for calcium utilization in the body
- ✓ QuadriCal® MINI Calcium Boluses provide niacin to aid liver function during negative energy balance
- ✓ Contains propionate that cows can utilize for energy
- ✓ Convenient & easy application!
 - Smaller bolus than leading competitor
 - Rounded profile for smooth, safe and easy administration with our 26mm™ V.2 Multidose Balling Gun



BENEFITS & APPLICATIONS:

- ✓ Nutritional supplement for dairy cows at calving to maintain blood calcium
- ✓ Easy to use
- ✓ No mess, as can sometimes be the case with gels and drenches

For best results, use in conjunction with RumenAider® or Rumacin™ Capsules for Cattle



PRODUCT CODE	PACKAGING
GN-00176	Individual application (5 boluses) in sealed, poly pack (6 packs per box) (8 boxes/case)
GN-00177	Individual application (5 boluses) in sealed, poly pack (40 packs per box) (1 box/case)
GN-00178	Individual application (5 boluses) in sealed, poly pack (80 packs per box) (1 box/case)

QuadriCalMINI08182015



Cal-D Cap™ Calcium Capsules



Calcium supplement for adult cattle. Cal-D Cap™ Calcium Capsules help balance calcium levels at calving with multiple forms of calcium for rapid and sustained availability.



KEY FEATURES

- ✓ **Rapidly available calcium sources that are typically lacking in most 'slow release' calcium or CMPK boluses**
- ✓ **Sustained availability calcium often lacking in gel tubes and drenches, without the mess or risk of irritation**
- ✓ **Vitamin D3, critical for calcium utilization in the body**
- ✓ **CAL - D Cap™ Calcium Capsules contain propionate that cows can utilize for energy**
- ✓ **Convenient & easy application!**
 - **Simply administer using Bio-Vet's 26mm™ Multi-dose Balling Gun or any standard balling gun**

BENEFITS & APPLICATIONS:

- ✓ **Nutritional supplement for dairy cows at calving to maintain calcium**
- ✓ **Easy to use**
- ✓ **No mess, as can sometimes be the case with gels and drenches**
- ✓ **For best results, use in conjunction with RumenAider® Microbial / Nutritional Capsules for Cattle**



PRODUCT CODE	PACKAGING
GN-170	40 capsule jar (12 jars/case)
GN-171	128 capsule box (4 boxes/case)
GN-172	640 capsule bulk box (1 bulk box/case)

CalDCap08182015



GENER-CAP™ Capsules for Adult Cattle



Nutritional/microbial supplement for cattle. Provides high levels of vitamins; chelated trace minerals; lactic acid producing bacteria; help; fructooligosaccharides and yeast cell walls.

KEY FEATURES

- ✓ **Live intestinal bacteria: 8 species - 6 billion CFU of high quality bile tolerant beneficial microbials in each capsule!**

Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium Lactobacillus lactis
--

Pediococcus cerevisiae Bifidobacterium bifidum Bifidobacterium infantis Bifidobacterium longum

- ✓ **Patented Capsule-In-A-Capsule®* packaging system protects live bacterial cultures from highly concentrated nutrient sources**



*Patented under U.S. Patent #5,310,555 and #5,501,857
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- ✓ **Over 5 times more lactic acid producing bacteria than any other leading brand tested in two university studies***
- ✓ **4,000 mg of niacin and other B vitamins**
- ✓ **Highly available vitamins and chelated trace minerals important for immune function**
- ✓ **Fructooligosaccharides and yeast cell walls**
 - **Help beneficial bacteria**
- ✓ **Gelatin capsule dissolves rapidly (~ 6-8 minutes) -- fast acting**

*Data on file at Bio-Vet, Inc.

BENEFITS

- ✓ **Beneficial digestive organisms and enzymes for the rumen and intestine**
- ✓ **Digestive and nutritional support at receiving, post calving, during transition, during shipping or handling, for off feed cattle and cattle receiving veterinary treatment.**

GenerCapCattle02172015

PRODUCT CODE **PACKAGING**
GN-101 **40 capsule jar (12 jars/case)**



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Rumacin™ Cattle Capsules



Microbial, yeast and niacin capsules for adult cattle



KEY FEATURES

- ✓ **RUMACIN™** now contains Bio-Vet's proprietary blend of rumen Propionibacteria
- ✓ **RUMACIN™** is specially formulated to help rumen function
- ✓ **Beneficial live yeast and bacteria – 100 billion CFUs per capsule**
- ✓ **Niacin**
 - 6 grams per cap
- ✓ **B vitamins**
 - Crucial to body's metabolism
- ✓ **Yeast culture and digestive enzymes**
- ✓ **Convenient to use gelatin capsule**
 - Fits Bio-Vet's 26mm™ V.2 Multi-dose Balling Gun or standard balling guns
 - Ensures full dosage even to off feed cattle

BENEFITS

- ✓ **Digestive and nutritional support at calving, shipping, during veterinary treatment, for off feed cattle**



PRODUCT CODE **PACKAGING**
GN-150 **128 capsule box (4 boxes/case)**

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PECTI-CAP™ Cattle Capsules



Fiber / Electrolyte / Vitamin Supplement

KEY FEATURES

- ✓ Soluble and insoluble fiber (pectins)
 - Helps normalize intestinal consistency
- ✓ Fructooligosaccharides
 - Help beneficial organisms
- ✓ Complex carbohydrates from cell wall of *Saccharomyces cerevisiae* yeast
- ✓ Electrolytes - sodium, potassium, chloride and bicarbonate
 - Improve water retention and maintain proper body fluid levels
- ✓ Vitamins, especially B vitamins
 - Crucial to the body's metabolic functions and serve as antioxidants
- ✓ Kelp
 - A natural source of electrolytes, vitamins and trace minerals



BENEFITS

- ✓ Nutritional supportive for cattle undergoing diarrhea and / or digestive upset
- ✓ Use in conjunction with RumenAider® Cattle Capsules to supply high levels of beneficial direct fed microbials and high levels of vitamins and chelated trace minerals



PRODUCT CODE	PACKAGING
GN-107	40 capsule jar (12 jars/case)
GN-153	128 capsule box (4 boxes/case)
GN-157	640 capsule bulk box (1 bulk box/case)

PectiCap08182015



Adult Cattle Multi-Dose Balling Guns / Oral Drenchers



Bio-Vet's balling guns are convenient, versatile and economical

☑ **Durable, all PVC construction**

RECOMMENDED USES: Application of Bio-Vet capsules and boluses, and multiple veterinary boluses, capsules, magnets or oral liquid drenches to adult cattle.

32mm V.3 Balling Gun 08:182015

32mm™ V.3 Adult Cattle Multi-Dose Balling Gun / Oral Drencher



Holds three Bio-Vet boluses plus one # 7 veterinary capsules

PRODUCT CODE
GN-901

PACKAGING
20 guns per case

26mm V.2 Balling Gun 08:182015

26mm™ V.2 Adult Cattle Multi-Dose Balling Gun / Oral Drencher



Holds 5 QuadriCal® MINIs or six standard # 7 veterinary capsules (five super 7 size)

PRODUCT CODE
ST-105

PACKAGING
20 guns per case

Soft cap retains capsules and protects cow's mouth



DIRECTIONS FOR USE

BOLUS, CAPSULE, MAGNET APPLICATION:

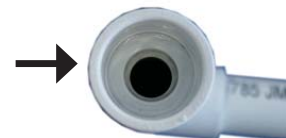
1. Holding gun in horizontal position, pull back on plunger.
2. Insert desired number of boluses into tip of gun. Place gun into mouth of properly restrained adult cattle only.
3. Slowly advance plunger to dispense boluses at very back of mouth, behind teeth, allowing adequate time for animal to swallow each bolus. Remove gun from animal's mouth and clean and dry gun between uses.



ORAL LIQUID DRENCHES: With gun properly placed in animal's mouth as described above and plunger fully advanced, slowly pour liquid into opening on the end of the plunger allowing animal to swallow liquid. Remove gun from animal's mouth and clean and dry gun between uses. **This gun is not recommended for caustic drenches nor drenches over 500 ml in volume!**



Hollow plunger design allows gun to double as a drencher for applying oral liquid treatments





Oral Speculums for Adult Cattle



Bio-Vet's speculums are convenient, versatile and economical

- ✓ **Durable, all PVC construction**
- ✓ **T-handle reduces chance of cow swallowing speculum**
- ✓ **Straight tube allows administration of any size product up to bore diameter**
- ✓ **Two sizes!**

RECOMMENDED USES: Application of oral boluses, capsules, or magnets to adult cattle.



'T' SPEC™ 106 1.05 inch diameter Oral Speculum for Adult Cattle

PRODUCT CODE **PACKAGING**
ST-106 20 guns per case

T_SPEC106_02102015

'T' SPEC™ 125 1.25 inch diameter Oral Speculum for Adult Cattle

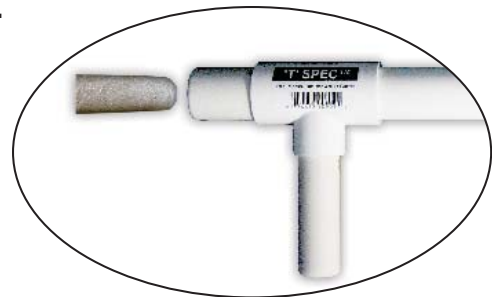
PRODUCT CODE **PACKAGING**
GN-902 20 guns per case

T_SPEC125_03202014

DIRECTIONS FOR USE

BOLUS, CAPSULE, MAGNET APPLICATION:

1. Grasping the short handle, gently place 'T' Spec™ into the mouth of properly restrained adult cattle only so that the tip is just past the base of the tongue.
2. Elevate the animal's head slightly.
3. Place the product to be given into the end of the speculum sticking out of the mouth **with any rounded end of the product going into the speculum first.**
4. Allow adequate time for the animal to swallow each bolus before administering the next bolus.
5. Gently remove the 'T' Spec™ from the animal's mouth.
6. Clean and dry between uses.



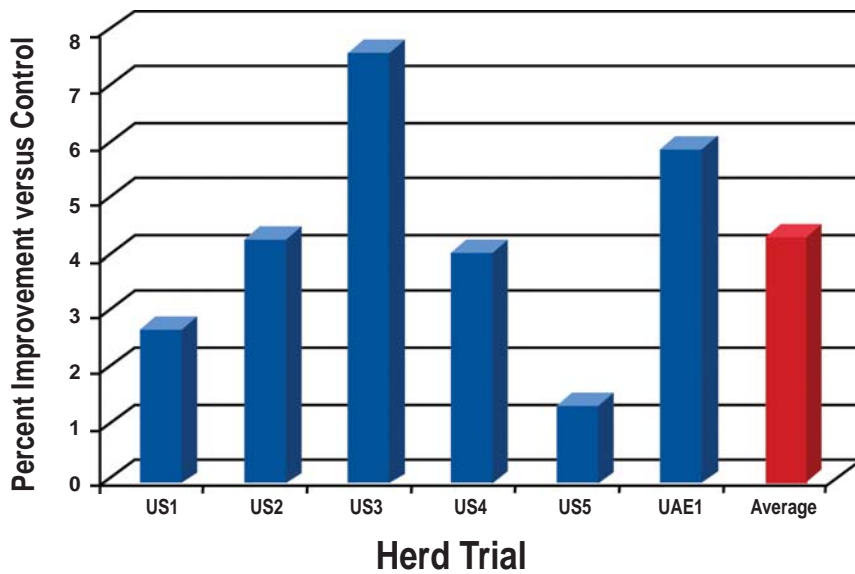


GENERATOR™ Products: Get more out of your ration and your cows through all stages of production and all seasons.

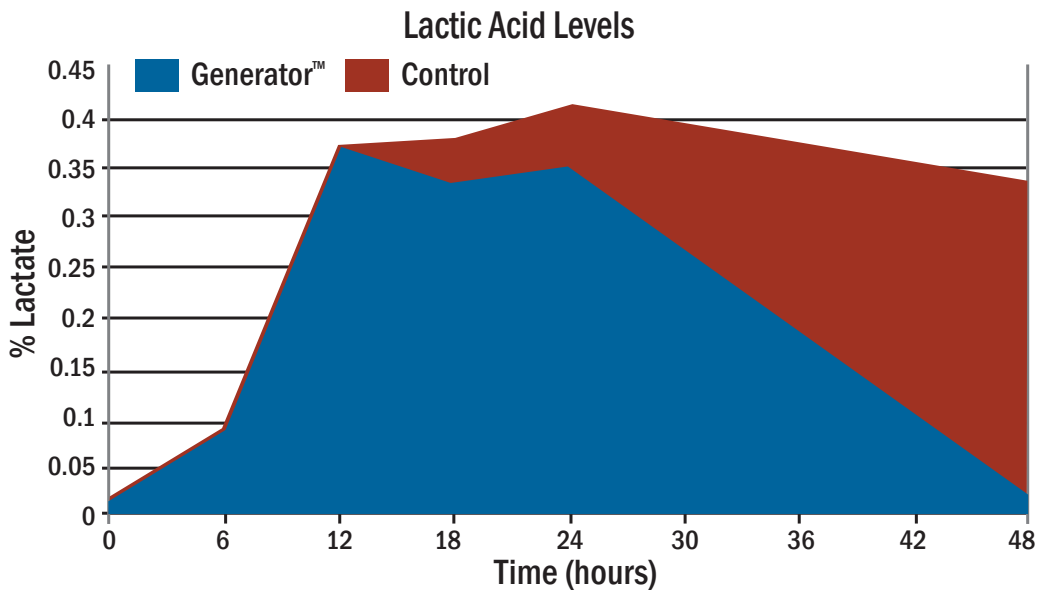
Propionibacteria convert lactic acid to propionate (energy), used by the cow for production. **Yeast** supports lactate utilizing bacteria and pH sensitive fiber digesting bacteria. **Intestinal lactic acid bacteria** use undigested starch in the small intestine, maintaining intestinal microbial balance. Generator™ products replenish beneficial microbials in the rumen and intestine for overall digestion support.

Production Improvements Using Generator™ DFM During Heat Stress *

GENERATOR™ showed an average of 4% improved milk production compared to control during heat stress conditions. Trial participants reported improved fat test.



Propionibacteria convert lactic acid to energy, even at low pH (5.0) - pH improvement shown (rumen and laboratory)*



Lactic Acid Levels - In Vitro Rumen Fluid

*Data on file at Bio-Vet, Inc.



GENERATOR™ ELITE

Direct Fed Microbial



Microbial supplement for ruminants. Provides high levels of microorganisms, including rumen / intestinal origin bacteria, live yeast, digestive enzymes and yeast cell walls.

KEY FEATURES

- ☑ **9 species of LIVE MICROBIALS -- over 58 billion total CFUs per feeding**

Saccharomyces cerevisiae Propionibacterium freudenreichii Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium
--

Lactobacillus lactis Pediococcus cerevisiae Bacillus subtilis Bacillus licheniformis

- ☑ **Rumen propionibacteria**
- ☑ **Intestinal lactic acid producing bacteria**
- ☑ **50 billion live cell yeast per feeding, which produce enzymes and B vitamins and maintain feed intake during hot weather**
- ☑ **25,000 units digestive enzymes – (Amylase, B glucanase, Cellulase, Hemicellulase, Lipase, Xylanase, Protease)**
- ☑ **Yeast cell walls**

BENEFITS

- ☑ **Replaces beneficial digestive organisms**
- ☑ **DMI x digestion = production (milk and meat)**
- ☑ **Digestive supplement for daily feeding to ruminants**

GeneratorELITE06102013

PRODUCT CODE	PACKAGING
GN-229	15 lb pouch (4/case)
GN-227	25 lb bag (1/case)
GN-226	50 lb bag (1/case)
GN-225	1 ton pallet (40 bags, 50 lb each)





GENERATOR™ D Direct Fed Microbial Powder



Microbial supplement for ruminants. For addition to feed at low inclusion rates (0.5 to 4 grams per head). Provides high levels of rumen / intestinal origin bacteria, yeast and digestive enzyme activity.

KEY FEATURES

- 9 species of LIVE MICROBIALS -- over 24 billion total CFUs per 2 gram feeding**

<ul style="list-style-type: none"> Propionibacterium freudenreichii Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium Lactobacillus lactis 	<ul style="list-style-type: none"> Pediococcus cerevisiae Bacillus subtilis Bacillus licheniformis Saccharomyces cerevisiae
--	---

- Rumen propionibacteria**
- Intestinal lactic acid producing bacteria**
- Live yeast shown to stabilize rumen fermentation**
- Enzyme producing bacteria**
- Purified digestive enzymes extracted from bacterial and fungal fermentations**

BENEFITS

- Replaces beneficial digestive organisms**
- DMI x digestion = production (milk and meat)**
- Digestive supplement for daily feeding to ruminants**



PRODUCT CODE	PACKAGING
GN-221	1.5 kg pouch (16/case)
GN-222	7.5 kg pouch (4/case)
GN-220	1 ton pallet (50 bags, 40 lb each)

GeneratorD03082011



P169

Producing peak efficiency in cows, and then maintaining production, is a delicate balancing act. Quality feed, protein, minerals, vitamins, genetics and health are all important factors. It all adds up to giving the cow what she needs to produce enough energy to meet body maintenance needs and maximize milk production and reproduction.

Propionibacterium freudenreichii strain P169 produces propionate from multiple sources of feed (substrates) to help balance energy.

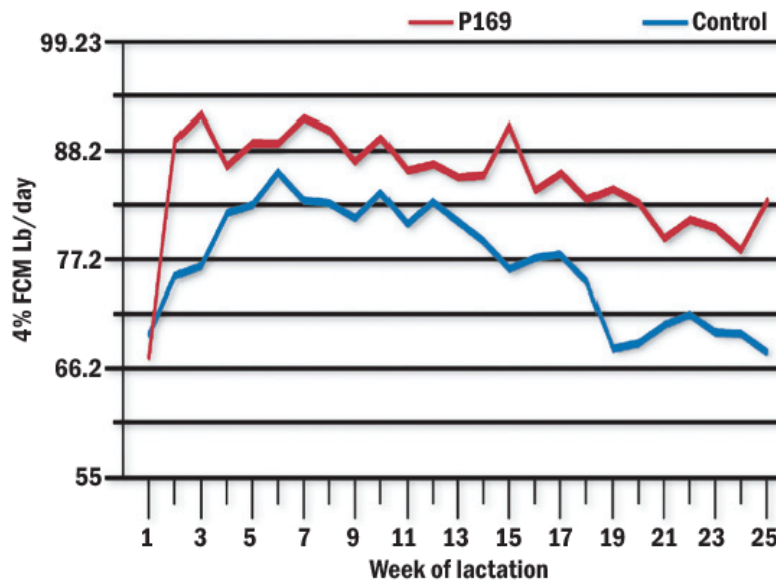
Propionibacteria strain P169 improved milk production in controlled studies alone or with rBST

Milk production improvements when using P169 alone or in combination with rBST.

D.R. Stein et al J. Dairy Sci. 89:111-125	Week 1-25 MILK, Lb	Week 1-25 4% FCM Lb	Week 26-30 rBST 4% FCM Lb
Control	69.2	65.9 ^a	65.2 ^a
P169	74.9	72.1 ^b	74.3 ^b
Effect	NS	<i>p</i> <.003	<i>p</i> <.03
Difference	5.7	6.2	9.1
%	8.2%	9.4%	14.0%

^{ab} differing superscripts showed statistical difference

Fat corrected milk production improvement over a 25 week evaluation.



Cows - 2 + Lactations

The graph and chart are adapted from the research article, "Effects of Feeding Propionibacteria to Dairy Cows on Milk Yield, Milk Components and Reproduction," D.R. Stein, D.T. Allen, E.B. Perry, J.C. Bruner, K.W. Gates, T.G. Rehberger, K. Mertz, D. Jones, and L.J. Spicer. Journal of Dairy Science 89:111-125. © American Dairy Science Association, 2006.



ProP169[®] Direct Fed Microbial for Dairy Cattle CONCENTRATE



Provides high levels of Propionibacterium freudenreichii strain P169, a rumen origin bacteria shown to dramatically improve rumen propionate yield.

KEY FEATURES

- ☑ **LIVE MICROBIALS - over 60 billion CFUs Propionibacterium freudenreichii strain P169 per feeding**
- ☑ **Strain P169 rumen propionibacteria has been shown by research to dramatically increase rumen propionate yield, which provides cattle with more of the precursors needed to produce blood glucose**
 - **Important for energy balance in dairy cows, milk yield, milk solids and reproductive performance**

Compatible with:

- **Yeast**
- **rBST**
- **Monensin**



Prop16902102015

PRODUCT CODE	PACKAGING
GN-219	7.5 kg (3,750 feedings) pouch (4/case)

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ProP169[®] FARM PACK Direct Fed Microbial for Dairy Cattle



**Provides high levels of Propionibacterium freudenreichii strain P169, a rumen origin bacteria shown to dramatically improve rumen propionate yield.
IN A FORMULA THAT CAN BE FED AS A TOP DRESS**

KEY FEATURES

- ☑ **LIVE MICROBIALS** - over 60 billion CFUs Propionibacterium freudenreichii strain P169 per feeding - 1/2 ounce feeding rate
- ☑ **Strain P169 rumen propionibacteria** has been shown by research to dramatically increase rumen propionate yield, which provides cattle with more of the precursors needed to produce blood glucose
 - Important for energy balance in dairy cows, milk yield, milk solids and reproductive performance



ProP169FARMPACK03082011

PRODUCT CODE	PACKAGING
GN-215	15 lb (480 feedings) pouch (4/case)
GN-217	50 lb (1,600 feedings) bag (1/case)
GN-216	1 ton pallet (40 bags, 50 lb each)



GENERATOR™ ULTRA

Direct Fed Microbial Blend

CONCENTRATE



Microbial supplement for ruminants. Provides high levels of microorganisms, including rumen / intestinal origin bacteria, live yeast and digestive enzymes.

KEY FEATURES

- ☑ **8 species of LIVE BACTERIA -- over 68.25 billion total CFUs per feeding**

Propionibacterium freudenreichii Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium	Lactobacillus lactis Pediococcus cerevisiae Bacillus subtilis Bacillus licheniformis
--	---

- ☑ **Generator™ ULTRA contains Bio-Vet's proprietary blend of rumen Propionibacteria**
- ☑ **Intestinal lactic acid producing bacteria**
- ☑ **50 billion live cell yeast per feeding, which produce enzymes and B vitamins and maintain intake during hot weather**
- ☑ **Enzyme producing bacteria**
- ☑ **Purified digestive enzymes -- (Amylase, B glucanase, Cellulase, Hemicellulase, Lipase, Xylanase, Protease)**



GeneratorUltra06102013

PRODUCT CODE	PACKAGING
GN-310	15 lb pouch (4/case) 480 feedings
GN-318	25 lb bag (1/case) 800 feedings
GN-312	50 lb bag (1/case) 1,600 feedings
GN-311	1 ton pallet (40 bags, 50 lb each)



GENERATOR™ ULTRA Direct Fed Microbial Blend FARM PACK



Microbial supplement for ruminants. Provides high levels of microorganisms, including rumen / intestinal origin bacteria, live yeast and digestive enzymes.

IN A FORMULA THAT CAN BE FED AS A TOP DRESS

KEY FEATURES

- ☑ 8 species of LIVE BACTERIA -- over 63 billion total CFUs per feeding

Propionibacterium freudenreichii Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium	Lactobacillus lactis Pediococcus cerevisiae Bacillus subtilis Bacillus licheniformis
--	---

- ☑ Generator™ ULTRA contains Bio-Vet's proprietary blend of rumen Propionibacteria
- ☑ Intestinal lactic acid producing bacteria
- ☑ 50 billion live cell yeast per feeding, which produce enzymes and B vitamins and maintain intake during hot weather
- ☑ Enzyme producing bacteria
- ☑ Purified digestive enzymes -- (Amylase, B glucanase, Cellulase, Hemicellulase, Lipase, Xylanase, Protease)

GeneratorUltraFARMPACK05312012

PRODUCT CODE	PACKAGING
GN-315	15 lb pouch (4/case) 480 feedings
GN-314	50 lb bag (1/case) 1,600 feedings
GN-313	1 ton pallet (40 bags, 50 lb each)





GENERATOR™ ProSacc™ Direct Fed Microbial Blend



Microbial supplement specifically designed for ruminant animals. Provides high levels of microorganisms, including rumen / intestinal origin bacteria, yeast, digestive enzymes and B vitamins.

FEATURES

- ✓ **Bio-Vet's proprietary blend of rumen Propionibacteria**

DMI x digestion = production

BENEFITS

- ✓ **Intestinal lactic acid producing bacteria**
- ✓ **Live cell yeast produce enzymes and B vitamins, and maintain dry matter intake**
- ✓ **Enzyme producing bacteria help break down feed**
- ✓ **Digestive enzymes help break down feed**
- ✓ **B vitamins are essential nutrients**



PRODUCT CODE	PACKAGING
GN-245	7.5 kg pouch (4/case)
GN-246	50 lb bag (1/case)

GeneratorProSacc05072012



GENERATOR™ B

Direct Fed Microbial Powder for Beef Cattle



Provides high levels of microorganisms, including rumen / intestinal origin bacteria.

KEY FEATURES

- ✓ **8 species of LIVE MICROBIALS -- over 1.8 billion total CFUs per feeding**

Propionibacterium freudenreichii
Lactobacillus acidophilus
Lactobacillus casei
Enterococcus faecium

Lactobacillus lactis
Pediococcus cerevisiae
Bacillus subtilis
Bacillus licheniformis

- ✓ **Generator™ - B contains Bio-Vet's proprietary blend of rumen Propionibacteria**
- ✓ **Rumen lactic acid reducing bacteria**
- ✓ **Intestinal lactic acid producing bacteria**
- ✓ **Enzyme producing bacteria**



GeneratorB08182015

PRODUCT CODE **PACKAGING**
GN-244 **500 g pouch (10/case)**

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g5G™
Direct Fed Microbial Blend



Bacterial supplement for ruminants. Provides high levels of microorganisms, including rumen / intestinal origin bacteria.

KEY FEATURES

- ✓ **Live Microbials: 8 species**

Propionibacterium freudenreichii
Lactobacillus acidophilus
Lactobacillus casei
Enterococcus faecium

Lactobacillus lactis
Pediococcus cerevisiae
Bacillus subtilis
Bacillus licheniformis

- ✓ **Bio-Vet's proprietary blend of rumen colonizing Propionibacteria**
 - Strain P5 shown to improve forage intake and reduce nitrates in ration
 - Strain P63 shown to utilize lactic acid in rumen (helps cattle prone to rumen acidosis cope with high carbohydrate rations)
- ✓ **Colonizing, intestinal lactic acid producing bacteria**
- ✓ **Enzyme producing bacteria**
- ✓ **Low (1 gram) per cow daily inclusion rate**



PRODUCT CODE **PACKAGING**
GN-331 **10 kg (22 lb) pouch (feeds 10,000 dairy cows) (2/case)**

g5G02102015

Bio-Vet, Inc. • 300 Ernie Drive • Barneveld, WI 53507 • (800) 246-8381 • Fax (608) 924-7006 • www.bio-vet.com



GENER-PYK™

Microbial supplement
designed for all livestock



Provides high levels of microorganisms, including intestinal origin bacteria, digestive enzymes, fructooligosaccharides, yeast cell walls and kelp.

KEY FEATURES

- ✓ **Live Microbials: 8 species**

Saccharomyces cerevisiae	Lactobacillus lactis
Lactobacillus acidophilus	Pediococcus cerevisiae
Lactobacillus casei	Bacillus subtilis
Enterococcus faecium	Bacillus licheniformis

- ✓ **Includes intestinal lactic acid producing bacteria**
- ✓ **Includes live cell yeast which produce enzymes and B vitamins**
- ✓ **Digestive Enzymes -- Amylase (starch), Cellulase (fiber), B glucanase (grains), Lipase (fat), Hemicellulase (fiber), Xylanase (complex sugars), Protease (protein)**
- ✓ **Fructooligosaccharides and yeast cell walls**
 - **Help beneficial bacteria**
- ✓ **Kelp as a potent, natural source of vitamins and trace minerals**

BENEFITS

- ✓ **Digestive supplement for all livestock**
- ✓ **Ideal for calf starter and grower grain mixes**



GenerPYK05312012

PRODUCT CODE **PACKAGING**
GN-109 **3 lb pouch (16/case)**

Bio-Vet, Inc. • 300 Ernie Drive • Barneveld, WI 53507 • (800) 246-8381 • Fax (608) 924-7006 • www.bio-vet.com



Bovine CPR™ Supplement for all cattle



Can be mixed with dry feed, milk or milk replacer during highly challenging periods

KEY FEATURES

- ✓ **Live Microbials: 12 naturally-occurring species beneficial microbials**

Bacillus subtilis
Bacillus licheniformis
Enterococcus faecium
Lactobacillus acidophilus
Lactobacillus casei
Lactobacillus lactis

Pediococcus cerevisiae
Bacillus coagulans
Bifidobacterium bifidum
Bifidobacterium infantis
Bifidobacterium longum

- ✓ **Organic sugar**
 - A readily available energy source
- ✓ **Includes highly available selenium from selenium yeast**
- ✓ **Available vitamins including B complex important for immune function**
- ✓ **Soluble and insoluble fibers to maintain stool consistency**
- ✓ **Includes intestinal lactic acid producing bacteria**



BovineCPR03142014

PRODUCT CODE **PACKAGING**
GN-328 **500 g pouch (16/case)**

Bio-Vet, Inc. • 300 Ernie Drive • Barneveld, WI 53507 • (800) 246-8381 • Fax (608) 924-7006 • www.bio-vet.com



Bovine GoldLyte®

Electrolyte / Nutritional Supplement for Ruminating Cattle



KEY FEATURES

- ✓ **Electrolytes**
 - Sodium, potassium, chloride and bicarbonate for improved water retention and to maintain proper body fluid levels
- ✓ **Vitamins and chelated trace minerals**
 - Important for immune function
- ✓ **Kelp as a potent, natural source of vitamins, trace minerals**
- ✓ **Easy mixing; Free flowing; Packed in convenient, reclosable containers**

BENEFITS

- ✓ **Helps maintain nutrition / electrolyte balance during inappetence**
- ✓ **Reduces shrink**
- ✓ **Excellent for dehydrated groups of cattle**
- ✓ **Highly soluble**
 - Easy to mix and easy to use
- ✓ **Cattle offered Bovine GoldLyte® consume it readily**



BovineGoldLyte07262011

PRODUCT CODE	PACKAGING
GN-130	2 lb pouch (feeds 100 incoming or 8 dairy cows) (25/case)
GN-131	15 lb pouch (feeds 750 incoming or 60 dairy cows) (4/case)
GN-132	1 ton pallet (40 bags, 50 lb each) (feeds 2,500 incoming or 200 dairy cows)



Catolyte™
Electrolyte / Nutritional / Microbial
supplement for ruminating cattle



Also provides high levels of vitamins, energy and enzymes.

KEY FEATURES

- 9 species of Live Microbials - over 60 billion CFUs per feeding**

<p>Saccharomyces cerevisiae Propionibacterium freudenreichii Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium</p>	<p>Lactobacillus lactis Pediococcus cerevisiae Bacillus subtilis Bacillus licheniformis</p>
--	--

- Electrolytes**
 - **Sodium, potassium, chloride, bicarbonate and glycine for improved absorption**
- Highly available plasma proteins and amino acids**
- Vitamins and chelated trace minerals**
 - **Important for immune function**
- High levels of Niacin, Choline and B complex vitamins**
- Fructooligosaccharides and yeast cell walls**
 - **Help beneficial bacteria**
- Kelp as a potent, natural source of vitamins, trace minerals**

BENEFITS

- Helps maintain nutrition / electrolyte balance during inappetence**
- Replaces beneficial digestive organisms**
- Reduces shrink**
- Excellent nutritional supplement for severely dehydrated cattle**



LO_TS_Catolyte03082011

PRODUCT CODE	PACKAGING
GN-270	1 lb pouch (50/case)
GN-276	15 lb pouch (15 feedings) (4/case)
GN-275	50 lb bag (1/case)
GN-274	1 ton pallet (40 bags, 50 lb each)



PYCK-ME-UP™ Fresh Cow Drench Powder for Dairy Cattle



A gluconeogenic fresh cow supplement that provides Propionate, selenium Yeast, rapidly available Calcium, (K) potassium, Magnesium, Electrolytes and Proteinated trace minerals.

Sluggish start? Give Her a Little PYCK-ME-UP™!

KEY FEATURES (per 1.25 pound feeding)

- ✓ **Propionate**
 - A glucose precursor
- ✓ **Yeast source of selenium**
 - Highly available organic form
- ✓ **Calcium – 100 grams – multiple, highly available forms are metabolized independently of each other for optimal uptake**
 - Chloride form for immediate availability; propionate and proteinate (chelated) forms for intermediate / sustained availability
- ✓ **(K) potassium – 37 grams**
- ✓ **Magnesium for ‘complex’ fresh cow situations**
- ✓ **Electrolytes – including bicarbonate, chloride and sodium**
 - Fluid balance post-calving
- ✓ **Ultimate vitamin array – including 10 grams of Niacin**
- ✓ **Proteinated trace minerals for maximum bio-availability**
- ✓ **Use as a part of your routine fresh cow protocol!**



PYCKMEUP03082011

PRODUCT CODE	PACKAGING
GN-202	15 lb pouch (4/case)
GN-207	50 lb bag (1/case)
GN-206	1 ton pallet (40 bags, 50 lb each)



ParturX® Drench For Dairy Cattle at Time of Calving



An oral drench containing calcium, magnesium, niacin, other vitamins, compounds that the cow can use to build blood glucose, and a full feeding of yeast culture. For use at calving time.

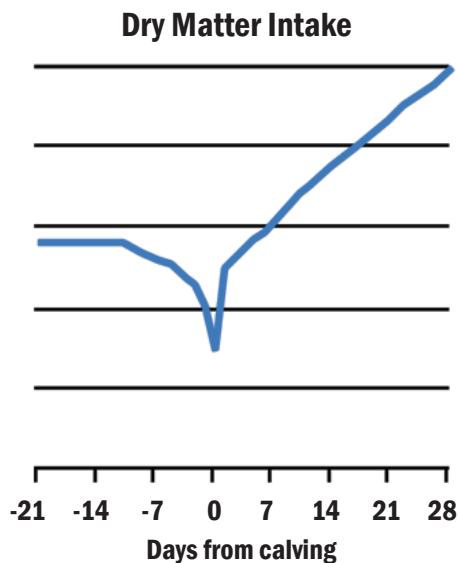
KEY FEATURES

- ✓ High calcium level combined with supplements for management of ketosis
- ✓ Rapid (chloride) absorption calcium source
- ✓ Magnesium for complicated fresh cow cation balance
- ✓ High vitamin levels
- ✓ 12 grams of niacin to aid liver function
- ✓ High levels of B vitamins to support metabolic enzymes and appetite
- ✓ 110 grams of glucose precursors to help maintain blood glucose levels
- ✓ Full feeding of yeast culture to support rumen function and appetite

BENEFITS

- ✓ Addresses calcium and energy metabolism and appetite in fresh cows

Research has shown over 50% of 2nd lactation and older cows suffer from subclinical milk fever (hypocalcemia) and over 40% of all cows suffer from ketosis at calving. Feed intake on calving day can drop 50% of normal.



Data on file at Bio-Vet, Inc.



ParturXDrench02202015

PRODUCT CODE **PACKAGING**
GN-181 **1 gal (3.785 L) jug (4/box) (~ 12.6 feedings per jug)**



ParturX® Paste For Dairy Cattle at Time of Calving



An oral paste containing calcium, magnesium, niacin, other vitamins, compounds that the cow can use to build blood glucose, and a full feeding of yeast culture. For use at calving time.

KEY FEATURES

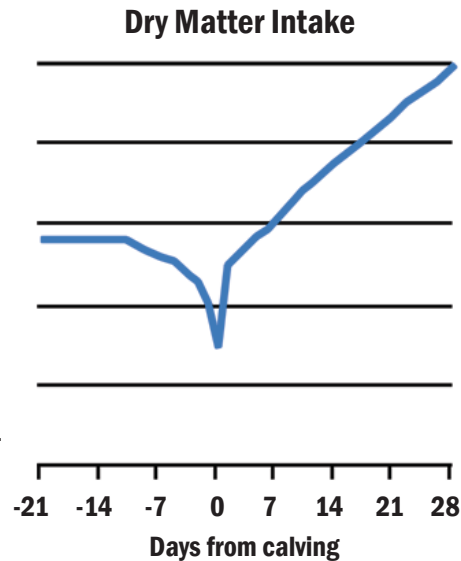
- ✓ High calcium level combined with supplements for management of ketosis
- ✓ Rapid (chloride), moderate (propionate), sustained (carbonate) absorption calcium sources
- ✓ Magnesium for complicated fresh cow cation balance
- ✓ High vitamin levels
- ✓ 12 grams of niacin to aid liver function
- ✓ High levels of B vitamins to support metabolic enzymes and appetite
- ✓ 115 grams of glucose precursors to help maintain blood glucose levels
- ✓ Full feeding of yeast culture to support rumen function and appetite

BENEFITS

- ✓ Addresses calcium and energy metabolism and appetite in fresh cows

Research has shown over 50% of 2nd lactation and older cows suffer from subclinical milk fever (hypocalcemia) and over 40% of all cows suffer from ketosis at calving. Feed intake on calving day can drop 50% of normal.

Data on file at Bio-Vet, Inc.



ParturX Paste 03142014

PRODUCT CODE
GN-180

PACKAGING
400 g tubes (12 tubes/box; 4 boxes (48 tubes)/case)



RumenAider® Paste

Microbial/Vitamin Paste for Cattle, Sheep & Goats



Microbial paste designed specifically for cattle containing vitamins; live, viable, naturally occurring microorganisms and enzymes.

KEY FEATURES

- RumenAider® Paste contains over 60 billion CFUs of live microbials per 15 ml feeding: 9 species**

<p>Saccharomyces cerevisiae Propionibacterium freudenreichii Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium</p>	<p>Lactobacillus lactis Pediococcus cerevisiae Bacillus subtilis Bacillus licheniformis</p>
---	---

- Rumen propionibacteria**
- Intestinal lactic acid producing bacteria**
- Live cell yeast which produce enzymes and B vitamins**
- Over 75,000 units of digestive enzymes per feeding: Amylase, B Glucanase, Cellulase, Xylanase, Protease**
- High levels of vitamins for high demand periods: A, D3, E, C and B complex including 750 IU Vitamin E / 15 ml - important for immune / reproductive function**

BENEFITS

- Replaces beneficial digestive organisms**
- Nutritional supplement at calving, shipping or handling, for off feed cattle and cattle receiving veterinary treatment**



PRODUCT CODE **PACKAGING**
GN-288 **300 ml (10.1 fl. oz.) tube (12 tubes/box; 4 boxes (48 tubes)/case)**

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RumenAiderPaste05312012



BIOSTART™ Paste

Microbial/Vitamin Paste for Cattle, Sheep, Goats & Horses



A direct fed microbial paste containing live, viable, naturally occurring microorganisms; enzymes and vitamins designed for all livestock.

KEY FEATURES

- ✓ **Biostart™ Paste contains over 30 billion CFUs of live microbials per 15 ml feeding: 11 species**

Bacillus licheniformis
 Bacillus subtilis
 Bifidobacterium bifidum
 Bifidobacterium infantis
 Bifidobacterium longum
 Enterococcus faecium

Lactobacillus acidophilus
 Lactobacillus casei
 Lactobacillus lactis
 Pediococcus cerevisiae
 Saccharomyces cerevisiae

- ✓ **Includes intestinal lactic acid producing bacteria**
- ✓ **Includes live cell yeast which produce enzymes and B vitamins**
- ✓ **Over 33,000 units digestive enzymes per 15 ml feeding: Amylase, Cellulase, B Glucanase, Xylanase, Protease**
- ✓ **Vitamins - including 750 IU Vitamin E / 15 ml feeding**
 - Important for immune / reproductive function

BENEFITS

- ✓ **Replaces beneficial digestive organisms**
- ✓ **Nutritional supplement at parturition, shipping or handling, for off feed animals and animals receiving veterinary treatment**
- ✓ **Economical and convenient**



PRODUCT CODE	PACKAGING
GN-287	80 ml (2.7 fl. oz.) dial-a-dose tube (12 tubes/box; 4 boxes (48 tubes)/case)
GN-286	300 ml (10.1 fl. oz.) tube (12 tubes/box; 4 boxes (48 tubes)/case)

BiostartPaste05312012



KuroGel™

For animals suffering intestinal upset



KEY FEATURES & BENEFITS

- ✓ **Aqueous base for fast dispersion**
- ✓ **Supportive paste for animals with intestinal upset**
- ✓ **Use in conjunction with veterinary treatment**
- ✓ **For most domestic livestock**

Diarrhea in adult cattle is characterized by progressive dehydration. It rarely results in death, as is often the case in calves, yet can become chronic and reduce production over a cow's lifetime.

Diarrhea leads to:

- Fluid loss
- Electrolyte imbalance
- Acidosis or alkalosis
- Dehydration
- May become life-threatening in severe cases



KuroGel08182015

PRODUCT CODE	PACKAGING
GN-285	250 ml (312.5 g) tube (12 tubes/box; 4 boxes (48 tubes)/case)
GN-291	3.52 L (4.4 kg) jug (14+ feedings) for use with standard drenching guns



RumenAider® Jr Stocker/Feeder Capsules



Nutritional / microbial supplement for calves weighing 250 to 500 pounds. Provides vitamins, chelated trace minerals, rumen and intestinal bacteria, yeast, enzymes, kelp, fructooligosaccharides and yeast cell walls.

KEY FEATURES

- ✓ **RumenAider™ Jr now contains Bio-Vet's proprietary blend of rumen Propionibacteria**
- ✓ **Live yeast**
 - **Promote rumen fermentation and appetite**
- ✓ **5 species of intestinal bacteria**
- ✓ **Patented Capsule-in-a-Capsule®* packaging system protects live microbial cultures**
- ✓ **Superior microbial stability compared to other mixed nutritional, microbial products**

It's in there . . . and it's working!



Patented Capsule-in-a-Capsule®* packaging system assures contained beneficial microbials are separated and protected from nutritional components.

*- Bio-Vet, Inc. U.S. Patent #5,310,555 & #5,501,857
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- ✓ **Two university studies show RumenAider™ contains over 5 times more total live lactic acid producing bacteria than other leading brands tested***
- ✓ **1,750 mg of niacin and other B vitamins**
- ✓ **Highly available vitamins and chelated trace minerals important for immune function**
- ✓ **Fructooligosaccharides and yeast cell walls**
 - **Help beneficial bacteria**
- ✓ **Fast acting gelatin capsule dissolves rapidly (~ 6 - 8 minutes)**

BENEFITS

- ✓ **Digestive and nutritional support at receiving, during transition, during shipping or handling, for off feed calves and calves receiving veterinary treatment**

*Data on file at Bio-Vet, Inc.



PRODUCT CODE	PACKAGING
GN-105	50 capsule jar (12 jars/case)
GN-155	300 count bulk box (4/case)

RumenAiderJrCaps08182015



GENER-CAP™ Capsules for Calves



Nutritional/microbial supplement for calves. Provides high levels of vitamins; chelated trace minerals; lactic acid producing bacteria; kelp; specialized egg proteins; and fructooligosaccharides and yeast cell walls.

KEY FEATURES

- ✓ **Live intestinal bacteria:**
8 species - Contains 6 billion CFU of high quality bile tolerant beneficial microbials in each capsule!

Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium Lactobacillus lactis	Pediococcus cerevisiae Bifidobacterium bifidum Bifidobacterium infantis Bifidobacterium longum
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- ✓ **Patented Capsule-In-A-Capsule®* packaging system protects live bacterial cultures from highly concentrated nutrient sources**



*Bio-Vet, Inc. - U.S. Patent #5,310,555 and #5,501,857
© Copyright Bio-Vet, Inc.

- ✓ **Over 6 times more lactic acid producing bacteria than any other leading brand tested in two university studies***
- ✓ **1,000 mg of niacin and other B vitamins**
- ✓ **Highly available vitamins and chelated trace minerals important for immune function**
- ✓ **Fructooligosaccharides and yeast cell walls**
 - Help beneficial bacteria
- ✓ **Gelatin capsule dissolves rapidly (~ 6 minutes) -- fast acting**
- ✓ **Contains specialized egg proteins**

*Data on file at Bio-Vet, Inc.

BENEFITS

- ✓ **Supplies beneficial microbials for newborn digestive system**
- ✓ **Elevates level of nutrition to give calves a fast start**
- ✓ **Maintains beneficial digestive organisms**
- ✓ **Nutritional supplement at birth, shipping or handling, for off feed calves and calves receiving veterinary treatment**



PRODUCT CODE	PACKAGING
GN-104	50 capsule jar (12 jars/case)
GN-154	300 count bulk box (4 box/case)

GenerCapCalf08182015



PECTI-CAP Jr.™

Fiber/Electrolyte/Vitamin Supplement for Calves & Small Ruminants



Nutritional supportive for ruminants undergoing diarrhea and / or digestive upset

KEY FEATURES

- ✓ Soluble and insoluble fiber (pectins)
 - Helps normalize intestinal consistency
- ✓ Fructooligosaccharides
 - Help beneficial organisms
- ✓ Complex carbohydrates from cell wall of *Saccharomyces cerevisiae* yeast
- ✓ Electrolytes - sodium, potassium, chloride and bicarbonate
 - Improve water retention and maintain proper body fluid levels
- ✓ Vitamins, especially B vitamins
 - Crucial to the body's metabolic functions and serve as antioxidants
- ✓ Kelp
 - A natural source of electrolytes, vitamins and trace minerals
- ✓ Small size for animals weighing 100 to 500 pounds

BENEFITS

- ✓ Use in conjunction with RumenAider® Jr. Calf Capsules to supply high levels of beneficial direct fed microbials and high levels of vitamins and chelated trace minerals



PectiCapJr08182015

PRODUCT CODE	PACKAGING
GN-108	50 capsule jar (12/case)
GN-158	300 count bulk box (4/case)



GENER K™ Milk/Milk Replacer Microbial Additive



Nutritional / microbial supplement for calves. Provides daily levels of vitamins, selenium, viable microorganisms, digestive enzymes, fructooligosaccharides, yeast cell walls, kelp and specialized egg proteins.

Key Features

- ✓ **Live Microbials: 10 species -- Over 1.75 Billion CFUs per feeding**

<ul style="list-style-type: none"> Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium Lactobacillus lactis Pediococcus cerevisiae 	<ul style="list-style-type: none"> Bacillus subtilis Bacillus licheniformis Bifidobacterium bifidum Bifidobacterium infantis Bifidobacterium longum
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- ✓ **Includes intestinal lactic acid producing bacteria**
- ✓ **Digestive Enzymes: Amylase (starch), Cellulase (fiber), B glucanase (grains), Hemicellulase (fiber), Lactase (milk sugar), Lipase (fat), Xylanase (complex sugars), Protease (protein)**
- ✓ **Available vitamins including B complex important for immune function**
- ✓ **Fructooligosaccharides and yeast cell walls**
 - Help beneficial bacteria
- ✓ **Specialized Egg Proteins**
- ✓ **Kelp as a potent source of vitamins, naturally chelated trace minerals**
- ✓ **Includes highly available selenium from selenium yeast**



PRODUCT CODE	PACKAGING
GN-103	3 lb pouch (16/case)
GN-106	15 lb pouch (4/case)
GN-119	1 ton pallet (40 bags/50 lb each)

GenerK05312012



Generator™ WS Milk/Milk Replacer Microbial Additive



Nutritional / microbial supplement for calves. Provides daily levels of vitamins, selenium, viable microorganisms, digestive enzymes, fructooligosaccharides and specialized egg proteins.

KEY FEATURES

- ✓ **Live Microbials: 10 species -- Over 1.8 Billion CFUs per feeding**

<ul style="list-style-type: none"> Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium Lactobacillus lactis Pediococcus cerevisiae 	<ul style="list-style-type: none"> Bacillus subtilis Bacillus licheniformis Bifidobacterium bifidum Bifidobacterium infantis Bifidobacterium longum
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- ✓ **Includes intestinal lactic acid producing bacteria**
- ✓ **Digestive enzymes: Amylase (starch), Cellulase (fiber), B glucanase (grains), Hemicellulase (fiber), Lactase (milk sugar), Lipase (fat), Xylanase (complex sugars), Protease (protein)**
- ✓ **Available vitamins including B complex important for immune function**
- ✓ **Includes highly available selenium from selenium yeast**
- ✓ **Fructooligosaccharides - feed beneficial bacteria**
- ✓ **Specialized egg proteins**
- ✓ **Highly soluble with minimal settling characteristics**

BENEFITS

- ✓ **Formulated for livestock producers feeding large groups of calves.**



GeneratorWS05312012

PRODUCT CODE	PACKAGING
GN-212	3 lb pouch (16/case)
GN-210	15 lb pouch (4/case)
GN-213	1/2 ton pallet (20 bags/50 lb each)



Calf GoldLyte[®] Electrolyte/Microbial Supplement for Calves



Calf GoldLyte[®] is Flexible!

Mix it with water

Mix it with milk

Mix it with MILK REPLACER

KEY FEATURES

- Balanced electrolytes and buffering agents – sodium, potassium, chloride, bicarbonate and citrate for improved water retention and proper body fluid maintenance**
- Live Microbials: 4 billion CFU / 100g feeding of beneficial microbials**

Lactobacillus acidophilus	Pediococcus cerevisiae
Lactobacillus casei	Bifidobacterium bifidum
Enterococcus faecium	Bifidobacterium infantis
Lactobacillus lactis	Bifidobacterium longum

- Fructooligosaccharides (inulin) and yeast cell walls**
 - **Help beneficial bacteria**
- Kelp extract**
 - **Supplies micronutrients**
- B complex vitamins to replace those excreted during fluid loss from hot weather and diarrhea**

BENEFITS

- Replaces beneficial digestive organisms**
- Replenishes Important Electrolytes**
- Energy resource for calves**
- Nutritional supplement during fluid loss associated with shipping, heat or scours**
- Helps reduce shrink**



LO_TS_CalfGoldLyte07262011

PRODUCT CODE	PACKAGING
GN-265	500g (5 feedings) pouch (50/case)
GN-261	2.5 kg (25 feedings) pouch (10/case)
GN-262	7.5 kg (75 feedings) pouch (4/case)
GN-267	50 lb (225 feedings) bag (1/case)
GN-266	1 ton pallet (40 bags/50 lb each)



PectiLyte™

Fiber / Electrolyte / Microbial Supplement for Calves



Move beyond the ordinary to the unmatched results of PectiLyte™ !

KEY FEATURES

- ✓ **Electrolytes – sodium, potassium, chloride and bicarbonate for improved water retention and to maintain proper body fluid levels**
- ✓ **Live Microbials: 10 naturally-occurring species beneficial microbials**



<p>Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium Lactobacillus lactis Pediococcus cerevisiae</p>	<p>Bifidobacterium bifidum Bifidobacterium infantis Bifidobacterium longum Bacillus subtilis Bacillus licheniformis</p>
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- ✓ **Fructooligosaccharides and yeast cell walls**
 - Help beneficial organisms
- ✓ **Kelp**
 - As a potent, natural source of electrolytes, vitamins, trace minerals, soluble and insoluble fibers (pectin) to maintain stool consistency
- ✓ **Dextrose**
 - A readily available energy source
- ✓ **Vitamins**
 - As antioxidants
- ✓ **Formulation can be mixed with milk or milk replacer for maintenance feeding**
- ✓ **Broad nutritional support for calves with diarrhea**
- ✓ **Soluble and insoluble fibers to maintain stool consistency**



PRODUCT CODE	PACKAGING
GN-123	1 lb pouch (50/case)
GN-124	5 lb pouch (10/case)
GN-120	15 lb pouch (4/case)
GN-126	50 lb bag (1/case)
GN-125	1 ton pallet (40 bags/50 lb each)

PectiLyte07262011



Gener-Lyte™
Non-Gelling Electrolyte/Nutritional
/ Microbial Supplement for Calves



Designed to replace important electrolytes, nutrients, energy and microbial activity in calves undergoing diarrhea. Forms a nutrient rich solution / suspension when mixed with water.

Move beyond simple sugar and electrolyte products!

KEY FEATURES

- ✓ **Balanced electrolytes and buffering agents – sodium, potassium, chloride, bicarbonate and organic acid salts for improved water retention and to maintain proper body fluid levels**
- ✓ **Highly available vitamins and chelated trace minerals important for immune function**
- ✓ **Live Microbials: 8 species beneficial microbials**

Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium Lactobacillus lactis	Pediococcus cerevisiae Saccharomyces cerevisiae Bacillus subtilis Bacillus licheniformis
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- ✓ **Fructooligosaccharides and yeast cell walls - help beneficial bacteria**
- ✓ **Contains specialized egg proteins**
- ✓ **High quality dried milk proteins**

BENEFITS

- ✓ **Replaces beneficial digestive organisms**
- ✓ **Nutritional support during fluid loss associated with shipping or scours**
- ✓ **Helps reduce shrink**



PRODUCT CODE	PACKAGING
GN-251	1.1 lb (5 feedings) pouch (50/case)
GN-253	5.5 lb (25 feedings) pouch (10/case)
GN-252	16.5 lb (75 feedings) pouch (4/case)

GenerLyte07262011



Gener-Lyte™ 'G' Gelling Electrolyte/Nutritional/ Microbial Supplement for Calves



Designed to replace important electrolytes, nutrients, energy and microbial activity in calves undergoing diarrhea. Forms a thickened nutrient rich solution / suspension when mixed with water.

Move beyond simple sugar and electrolyte products!

KEY FEATURES

- ✓ **Balanced electrolytes and buffering agents – sodium, potassium, chloride, bicarbonate and organic acid salts for improved water retention and to maintain proper body fluid levels**
- ✓ **Highly available vitamins and chelated trace minerals important for immune function**
- ✓ **Live Microbials: 8 species beneficial microbials**

Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium Lactobacillus lactis	Pediococcus cerevisiae Saccharomyces cerevisiae Bacillus subtilis Bacillus licheniformis
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- ✓ **Fructooligosaccharides and yeast cell walls**
 - **Help beneficial bacteria**
- ✓ **Contains specialized egg proteins**
- ✓ **High quality dried milk proteins**
- ✓ **Soluble and insoluble fibers and gelling agents to improve absorption time**

BENEFITS

- ✓ **Replaces beneficial digestive organisms**
- ✓ **Nutritional support during fluid loss associated with shipping or scours**
- ✓ **Helps reduce shrink**



GenerLyteG07262011

PRODUCT CODE	PACKAGING
GN-231	1.1 lb (5 feedings) pouch (50/case)
GN-233	5.5 lb (25 feedings) pouch (10/case)
GN-232	16.5 lb (75 feedings) pouch (4/case)



CALF BYCEPS™ 'B'

Supplement for neonatal calves



Designed to be added to milk or milk replacer when calves are at high risk for intestinal upset, before clinical onset of diarrhea.

KEY FEATURES

- ✓ **Live Microbials: 11 naturally-occurring species beneficial microbials**

<ul style="list-style-type: none"> Bacillus subtilis Bacillus licheniformis Enterococcus faecium Lactobacillus acidophilus Bacillus coagulans Lactobacillus casei 	<ul style="list-style-type: none"> Lactobacillus lactis Pediococcus cerevisiae Bifidobacterium bifidum Bifidobacterium infantis Bifidobacterium longum
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- ✓ **Inulin**
 - A readily available energy source
- ✓ **Soluble and insoluble fibers to maintain stool consistency**
- ✓ **Includes intestinal lactic acid producing bacteria**
- ✓ **Available vitamins including B complex important for immune function**
- ✓ **Specialized Egg Proteins**



LO_TS_CalfBYCEPSB02012012

PRODUCT CODE	PACKAGING
GN-320	1.5 kg (100 feedings) pouch (16/case)
GN-321	6 kg (400 feedings) pouch (4/case)
GN-322	18 kg (1,200 feedings) bags (1/case)



Calf CPR™ Supplement for neonatal calves



Can be mixed with milk or milk replacer during highly challenging periods such as arrival and during early neonatal period

KEY FEATURES

- ✓ **Live Microbials: 12 naturally-occurring species beneficial microbials**

Bacillus subtilis
Bacillus licheniformis
Enterococcus faecium
Lactobacillus acidophilus
Lactobacillus casei
Lactobacillus lactis

Pediococcus cerevisiae
Bacillus coagulans
Bifidobacterium bifidum
Bifidobacterium infantis
Bifidobacterium longum

- ✓ **Organic sugar**
 - A readily available energy source
- ✓ **Kelp as a potent source of vitamins, naturally chelated trace minerals**
- ✓ **Available vitamins including B complex important for immune function**
- ✓ **Soluble and insoluble fibers to maintain stool consistency**
- ✓ **Includes intestinal lactic acid producing bacteria**

LO_TS_CalfCPR03142014

PRODUCT CODE **PACKAGING**
GN-329 **500 g (100 feedings) pouch (16/case)**





Equine Generator™ Direct Fed Microbial Blend



Microbial supplement specifically designed for horses. Provides high levels of microorganisms, including intestinal origin bacteria, digestive enzymes, kelp, yeast, fructooligosaccharides and yeast cell walls.

KEY FEATURES

Live Microbials: 8 species - over 12 billion CFUs per 1 oz. feeding

Saccharomyces cerevisiae Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium	Lactobacillus lactis Pediococcus cerevisiae Bacillus subtilis Bacillus licheniformis
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- Intestinal Lactic Acid Bacteria**
- Live cell yeast which produce enzymes and B vitamins**
- Yeast culture as a source of enzymes and B vitamins**
- Enzymes - Amylase, Cellulase, B glucanase, Hemicellulase, Lipase, Xylanase, Protease**
- Contains Biotin; essential B vitamins**
- Fructooligosaccharides and yeast cell walls**
 - Help beneficial bacteria
- Kelp**
 - Fed for thousands of years as a natural source of over 60 minerals and vitamins (geothermally dried for optimum bioavailability)

BENEFITS

- Provides nutritional support to help horses meet performance demands**



LO_TS_EquineGenerator05312012

PRODUCT CODE	PACKAGING
GN-247	7.5 lb pouch (8/case)



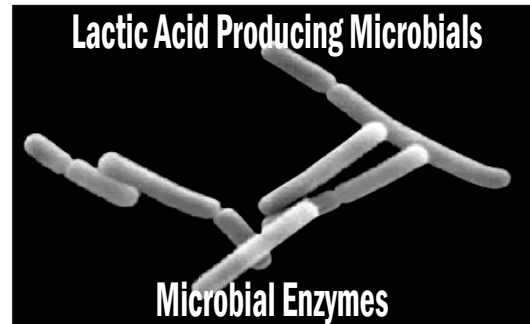
FermenAider™ DG Dry Granular Silage Inoculant



FermenAider™ DG contains a source of live, viable naturally occurring microorganisms and enzymes.

FermenAider™ DG HELPS GENERATE:

- ✓ More rapid and complete fermentation
- ✓ Improved retention of forage nutrients
- ✓ Improved silage stability
- ✓ Improved silage value



Numbers of beneficial bacteria shown by university research to be effective at improving fermentation of forages

- Three convenient application rates for various conditions
- Minimum 100,000 cfu per gram of forage for ideal ensiling conditions
- Minimum 200,000 cfu per gram of forage for normal ensiling conditions
- Minimum 400,000 cfu per gram of forage for difficult ensiling conditions

Types of bacteria to aid the entire fermentation process

- Homofermentive bacteria produce almost exclusively lactic acid to conserve maximum amount of energy in silage.
 - *Pediococcus acidilactici* rapidly lower pH during initial phase of fermentation
 - *Pediococcus pentosaceus* utilize five carbon sugar rings present in some plants during initial phase of fermentation
 - *Lactobacillus plantarum*, *Lactobacillus casei*, and *Lactobacillus brevis* complete fermentation at a lower, more stable pH
- ✓ Enzymes begin the breakdown of forage components to provide beneficial ensiling organisms with the substrates necessary for a rapid and complete fermentation.
 - ✓ Enzymes included are Amylase (starch), Cellulase (fiber), B glucanase (complex sugars) and Hemicellulase (fiber).



PRODUCT CODE	PACKAGING
GN-400	50 lb bag (treats up to 100 tons) (40/pallet)

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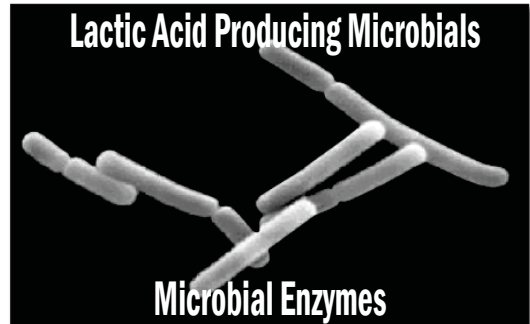
FermenAider™ WS Water Soluble Silage Inoculant



FermenAider™ WS contains a source of live, viable naturally occurring microorganisms and enzymes.

FermenAider™ WS HELPS GENERATE:

- ✓ More rapid and complete fermentation
- ✓ Improved retention of forage nutrients
- ✓ Improved silage stability
- ✓ Improved silage value



Numbers of beneficial bacteria shown by university research to be effective at improving fermentation of forages

- Three convenient application rates for various conditions
- Minimum 100,000 cfu per gram of forage for ideal ensiling conditions
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- ✓ Enzymes begin the breakdown of forage components to provide beneficial ensiling organisms with the substrates necessary for a rapid and complete fermentation.
 - ✓ Enzymes included are Amylase (starch), Cellulase (fiber), B glucanase (complex sugars) and Hemicellulase (fiber).



PRODUCT CODE	PACKAGING
GN-402	100 g pouch (treats up to 100 tons) (10/case)
GN-403	1 kg pouch (treats up to 1,000 tons) (10/case)



'O'RumenAider® Capsules for Adult Cattle



CONSIDER FOR ORGANIC USE

Nutritional / microbial supplement. Provides vitamins, chelated trace minerals, rumen and intestinal bacteria, yeast, enzymes, kelp and yeast cell walls.

KEY FEATURES

- ✓ **Rumen propionibacteria: 24 billion CFU's in each capsule**
- ✓ **Live yeast: promote rumen fermentation and appetite**
- ✓ **Digestive Enzymes - 100,000 units / capsule - Aid rumen digestive process**
- ✓ **5 species of intestinal bacteria**
- ✓ **Patented Capsule-In-A-Capsule®* packaging system protects live microbial cultures from degradation**

It's in there ... and it's working!



Patented Capsule-in-a-Capsule®* packaging system assures contained beneficial microbials are separated and protected from nutritional components.

*- Bio-Vet, Inc. U.S. Patent #5,310,555 & #5,501,857
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- ✓ **Superior microbial stability compared to other mixed nutritional, microbial products**
- ✓ **Two university studies show RumenAider® contains over 5 times more total live lactic acid producing bacteria than other leading brands tested***
- ✓ **6,000 mg of niacin and other B vitamins**
- ✓ **Highly available vitamins and chelated trace minerals important for immune function**
- ✓ **Yeast cell walls**
- ✓ **Fast acting gelatin capsule dissolves rapidly (~ 6 - 8 minutes)**
- ✓ **Each capsule contains 2000 IU vitamin E!**

*Data on file at Bio-Vet, Inc.

BENEFITS

- ✓ **Beneficial digestive organisms and enzymes for the rumen and intestine**
- ✓ **Nutritional support at receiving, during transition, at calving, shipping or handling, for off feed cattle and cattle receiving veterinary treatment**



PRODUCT CODE	PACKAGING
OG-502	40 capsule jar (12 jars/case)
OG-552	128 capsule box (4 boxes/case)



'O'QuadriCal® MINI Calcium bolus



QuadriCal® benefits in a slender profile and to CONSIDER FOR ORGANIC USE

Calcium supplement for adult cattle. 'O'QuadriCal® MINI Calcium Boluses provide a balance of rapid and sustained availability calcium that helps better maintain blood calcium levels at calving.

KEY FEATURES

- ✓ Rapidly available calcium sources that are typically lacking in most 'slow release' calcium or CMPK boluses
- ✓ Sustained availability calcium often lacking in gel tubes and drenches, without the mess or risk of aspiration
- ✓ Vitamin D3, critical for calcium utilization in the body
- ✓ 'O'QuadriCal® MINI Calcium Boluses provide niacin to aid liver function during negative energy balance
- ✓ Convenient & easy application!
 - Smaller bolus than leading competitor
 - Rounded profile for smooth, safe and easy administration with our 26mm™ V.2 Multidose Balling Gun



'O'QuadriCal® MINI



Original QuadriCal®



BENEFITS & APPLICATIONS:

- ✓ Nutritional supplement for dairy cows at calving to maintain blood calcium
- ✓ Easy to use
- ✓ No mess, as can sometimes be the case with gels and drenches

For best results, use in conjunction with 'O'RumenAider® Capsules for Cattle



PRODUCT CODE

OG-00576

PACKAGING

Individual application (5 boluses) in sealed, poly pack (6 packs per box) (8 boxes/case)

OG-00577

Individual application (5 boluses) in sealed, poly pack (40 packs per box) (1 box/case)

OQuadriCalMINI08182015



'O'Cal-D Cap™ Calcium Capsules



CONSIDER FOR ORGANIC USE

'O'CAL - D Cap™ Calcium Capsules help balance calcium levels at calving with multiple forms of calcium for rapid and sustained availability.



KEY FEATURES

- ✓ Rapidly available calcium sources that are typically lacking in most 'slow release' calcium or CMPK boluses
- ✓ Sustained availability calcium often lacking in gel tubes and drenches, without the mess or risk of irritation
- ✓ Vitamin D3, critical for calcium utilization in the body

BENEFITS

- ✓ Nutritional supplement for dairy cows at calving to maintain calcium
- ✓ Convenient & easy application!
 - Simply feed using any standard balling gun
 - No mess, as can sometimes be the case with gels and drenches



For best results, use in conjunction with 'O'RumenAider® Microbial / Nutritional Capsules for Cattle.



PRODUCT CODE	PACKAGING
OG-570	40 capsule jar (12 jars/case)
OG-571	128 capsule box (4 boxes/case)

OCaIDCap08:182015



'O'PECTI-CAP™
Fiber / Electrolyte / Vitamin
Supplement for Adult Cattle



CONSIDER FOR ORGANIC USE



KEY FEATURES

- Complex carbohydrates from cell wall of Saccharomyces cerevisiae yeast**
- Electrolytes - sodium, potassium, chloride and bicarbonate**
 - **Improve water retention and maintain proper body fluid levels**
- Vitamins, especially B vitamins**
 - **Crucial to the body's metabolic functions and serve as antioxidants**
- Kelp**
 - **A natural source of electrolytes, vitamins, trace minerals and soluble and insoluble fiber (pectins) to help normalize intestinal consistency**

BENEFITS

- Nutritional supportive for cattle undergoing diarrhea and / or digestive upset**

Use in conjunction with 'O' RumenAider® Cattle Capsules to supply high levels of beneficial direct fed microbials and high levels of vitamins and chelated trace minerals



O'PectiCap12282012

PRODUCT CODE PACKAGING
OG-507 40 capsule jar (12 jars/case)

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'O'PYCK-ME-UP™

Fresh Cow Drench Powder for Dairy Cattle



CONSIDER FOR ORGANIC USE

A fresh cow supplement that provides rapidly available Calcium, Potassium, Magnesium, Electrolytes, Trace minerals and Vitamins.

Sluggish start? Give Her a Little 'O'PYCK-ME-UP™!

KEY FEATURES: (per 1 pound feeding)

- ☑ **Calcium – 100 grams – multiple, highly available forms are metabolized independently of each other for optimal uptake**
 - Chloride form for immediate availability; proteinate (chelated) and carbonate forms for intermediate / sustained availability
- ☑ **Potassium – 40 grams**
- ☑ **Magnesium for 'complex' fresh cow situations**
- ☑ **Electrolytes – including bicarbonate, chloride and sodium – fluid balance post-calving**
- ☑ **Ultimate vitamin array – including 12 grams of Niacin**
- ☑ **Proteinated trace minerals for maximum bio-availability**
- ☑ **Yeast source of selenium – highly available organic form**
- ☑ **Use as a part of your routine fresh cow protocol!**



OPYCKMEUP12282012

PRODUCT CODE	PACKAGING
OG-512	50 lb bag (1/case)
OG-511	1 ton pallet (40 bags, 50 lb each)



'O'GENERATOR™ ELITE Direct Fed Microbial Blend



CONSIDER FOR ORGANIC USE

Microbial supplement for ruminants. Provides high levels of microorganisms, including rumen / intestinal origin bacteria, live yeast, digestive enzyme units and yeast cell walls.

KEY FEATURES

- ✓ **9 species of LIVE, NATURALLY-OCCURRING MICROBIALS -- over 58 billion total CFUs per feeding**

Saccharomyces cerevisiae Propionibacterium freudenreichii Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium	Lactobacillus lactis Pediococcus cerevisiae Bacillus subtilis Bacillus licheniformis
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- ✓ **Rumen propionibacteria**
- ✓ **Intestinal lactic acid producing bacteria**
- ✓ **50 billion live cell yeast per feeding, which produce enzymes and B vitamins and maintain feed intake during hot weather**
- ✓ **25,000 units digestive enzymes – (Amylase, B glucanase, Cellulase, Hemicellulase, Lipase, Xylanase, Protease)**
- ✓ **Yeast cell walls**

BENEFITS

- ✓ **Replaces beneficial digestive organisms**
- ✓ **DMI x digestion = production (milk and meat)**
- ✓ **Digestive supplement for daily feeding to ruminants**



OGeneratorELITE12282012

PRODUCT CODE	PACKAGING
OG-529	15 lb pouch (4/ case)
OG-526	50 lb bag (1/ case)
OG-525	1 ton pallet (40 bags, 50 lb each)



'O'GENER-CAP™ Capsules for Calves



CONSIDER FOR ORGANIC USE

Nutritional/microbial supplement for calves. Provides high levels of vitamins; chelated trace minerals; lactic acid producing bacteria; kelp; and yeast cell walls.

KEY FEATURES

- Contains 6 billion CFU of high quality bile tolerant beneficial microbials in each capsule!**
- Live naturally-occurring, intestinal bacteria: 8 species**

Lactobacillus acidophilus	Pediococcus cerevisiae
Lactobacillus casei	Bifidobacterium bifidum
Enterococcus faecium	Bifidobacterium infantis
Lactobacillus lactis	Bifidobacterium longum

- Patented Capsule-In-A-Capsule®* packaging system protects live bacterial cultures from highly concentrated nutrient sources**



***Patented under U.S. Patent #5,310,555 and #5,501,857
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- Over 6 times more lactic acid producing bacteria than any other leading brand tested in two university studies***
- 1,000 mg of niacin and other B vitamins**
- Highly available vitamins and chelated trace minerals important for immune function**
- Yeast cell walls**
- Gelatin capsule dissolves rapidly (~ 6 minutes) -- fast acting**

*Data on file at Bio-Vet, Inc.

BENEFITS

- Supplies beneficial microbials for newborn digestive system**
- Elevates level of nutrition to give calves a fast start**
- Maintains beneficial digestive organisms**
- Nutritional supplement at birth, shipping or handling, for off feed calves and calves receiving veterinary treatment**



PRODUCT CODE PACKAGING
OG-504 50 capsule jar (12 jars/case)

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'O'K™ Milk Additive



CONSIDER FOR ORGANIC USE

Nutritional / microbial supplement for calves. Provides daily levels of vitamins, selenium, viable microorganisms, digestive enzymes, yeast cell walls and kelp.

KEY FEATURES

- ✓ **Live, naturally-occurring Microbials: 10 species -- Over 1.75 Billion CFUs per feeding**

Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium Lactobacillus lactis Pediococcus cerevisiae	Bacillus subtilis Bacillus licheniformis Bifidobacterium bifidum Bifidobacterium infantis Bifidobacterium longum
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- ✓ **Includes intestinal lactic acid producing bacteria**
- ✓ **Digestive Enzymes: Amylase (starch), Cellulase (fiber), B glucanase (grains), Hemicellulase (fiber), Lactase (milk sugar), Lipase (fat), Xylanase (complex sugars), Protease (protein)**
- ✓ **Available vitamins including B complex important for immune function**
- ✓ **Yeast cell walls**
- ✓ **Kelp as a potent source of vitamins, naturally chelated trace minerals**



PRODUCT CODE	PACKAGING
OG-503	3 lb pouch (16/case)
OG-506	15 lb pouch (4/case)

OK12282012



'O'Generator™ WS Milk Additive



CONSIDER FOR ORGANIC USE

Nutritional / microbial supplement for calves. Provides daily levels of vitamins, selenium, viable microorganisms and digestive enzymes.

KEY FEATURES

- ✓ **Live Microbials: 10 species -- Over 1.8 Billion CFUs per feeding**

Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium Lactobacillus lactis Pediococcus cerevisiae	Bacillus subtilis Bacillus licheniformis Bifidobacterium bifidum Bifidobacterium infantis Bifidobacterium longum
--	--

- ✓ **Includes intestinal lactic acid producing bacteria**
- ✓ **Digestive enzymes: Amylase (starch), Cellulase (fiber), B glucanase (grains), Hemicellulase (fiber), Lactase (milk sugar), Lipase (fat), Xylanase (complex sugars), Protease (protein)**
- ✓ **Available vitamins including B complex important for immune function**
- ✓ **Includes highly available selenium from selenium yeast**
- ✓ **Highly soluble with minimal settling characteristics**

BENEFITS

- ✓ **Formulated for livestock producers feeding large groups of calves.**



OGeneratorWS12282012

PRODUCT CODE PACKAGING
OG-510 15 lb pouch (4/case)

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'O'PectiLyte™
Fiber / Electrolyte / Microbial
Supplement for Calves



CONSIDER FOR ORGANIC USE

Move beyond the ordinary to the unmatched results of 'O'PectiLyte™!



KEY FEATURES

- Electrolytes – sodium, potassium, chloride and bicarbonate for improved water retention and to maintain proper body fluid levels**
- Live Microbials: 10 naturally-occurring species beneficial microbials**

<p>Lactobacillus acidophilus Lactobacillus casei Enterococcus faecium Lactobacillus lactis Pediococcus cerevisiae</p>	<p>Bifidobacterium bifidum Bifidobacterium infantis Bifidobacterium longum Bacillus subtilis Bacillus licheniformis</p>
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- Yeast cell walls**
- Kelp**
 - **As a potent, natural source of electrolytes, vitamins, trace minerals, soluble and insoluble fibers (pectin) to maintain stool consistency**
- Vitamins**
 - **As antioxidants**
- Formulation can be mixed with milk for maintenance feeding**
- Broad nutritional support for calves with diarrhea**
- Electrolytes and microbials**
- Soluble and insoluble fibers to maintain stool consistency**



O'PectiLyte12282012

PRODUCT CODE	PACKAGING
OG-524	5 lb pouch (10/case)
OG-520	15 lb pouch (4/case)



Bio-Vet, Inc.

Bio-Vet researches, manufactures and markets innovative direct fed microbial (probiotic) products. Bio-Vet started in 1991 as a division of a larger animal nutrition company. In 1996, Bio-Vet was incorporated and has functioned as an independent entity ever since.

In 1994, Bio-Vet received its first patent (U.S. Patent 5,310,555) for its capsule-in-a-capsule® packaging technique for direct fed microbial and nutritional combinations. This innovative system continues to be the flagship for Bio-Vet and all direct fed microbial / nutritional combination products. Bio-Vet now holds two patents for this critical packaging technique.

Today, Bio-Vet offers a complete line of products, including capsules, boluses, pastes, soluble powders, calf and cattle electrolytes and daily feed additives. Bio-Vet continues to expand its product line as new technology in the direct fed microbial industry becomes available. Bio-Vet products are key components of a complete nutritional program for livestock.