

VEEMIN
MINERALS

Vitamin and Mineral Ingredients And Their Functions

Vitamins

Vitamin A— Functions as a component of the visual purple required for dim light vision; also, essential for normal growth and reproduction, maintenance of epithelial tissues and bone development. The liver can store vitamin A to prevent a deficiency. Unfortunately, liver stores are highly variable. Deficiency: most like to occur in high concentrate diets, bleached pasture or hay grown during drought conditions, feeds heavily processed with oxidizing materials and feeds stored for long periods of time.

Vitamin D— Required for calcium and phosphorus absorption, normal mineralization of bone, and mobilization of calcium from bone. Also, it functions as a regulatory role in immune cell function. Deficiency: in calves, rickets, swollen and stiff joints, irritability, tetany and convulsions.

Vitamin E— Functions as an antioxidant in cellular membranes; in the maintenance of structural and functional integrity of skeletal muscle, cardiac muscle, smooth muscle and peripheral vascular system. Deficiency: white-muscle disease, crossover walking, impaired suckling and heart failure. Deficiencies can be precipitated by the intake of unsaturated fats.

Macro Minerals

Calcium— Functions as a structural component of bone and teeth, Also involved in blood clotting, muscle contraction, membrane permeability, cardiac regulation, and activation and stabilization of certain enzymes. Skeleton stores a large reserve of calcium that can be utilized to maintain blood calcium concentrations. Deficiency: includes rickets, soft bones, arched back, swollen joints and development of beads on the ribs.

Magnesium— Involved in more than 300 enzyme activities and transmission of the genetic code. Also involved in the maintenance of electrical potentials across nerve and muscle membrane and for nerve impulse transmission. 65% to 70% of the total magnesium in the body is in bone. Deficiency signs of grass tetany includes nervousness, muscular twitching around face and ears, and becoming uncoordinated. In the advanced stages, cows go down on their side with their head back and go into convulsions.

Phosphorus— Functions in conjunction with calcium because the two minerals function together in bone formation. Also functions in cell growth, energy utilization and maintenance of acid-base and osmotic balance. 80% of phosphorus in the body is found in bones and teeth. Deficiency: includes reduced growth and feed efficiency, decreased appetite, impaired reproduction, reduced milk production, and weak and fragile bones.

Potassium— Important in acid-base balance, regulation of osmotic pressure, water balance, muscle contractions, nerve impulse transmission, and certain enzyme reactions. It is the third most abundant mineral in the body. Deficiency: includes reduced feed intake, pica, rough hair coat, and muscular weakness.

Continued

Vitamin and Mineral Ingredients and Their Functions

(Continued)

Sodium & Chlorine— Sodium is a major cation, while chlorine is the major anion in extracellular fluid. Both are involved in maintaining osmotic pressure, controlling water balance and regulating acid-base balance. Sodium functions in muscle contractions, glucose and amino acid transport. Chlorine is necessary for the formation of hydrochloric acid in gastric juice. Deficiency: signs of deficiency are rather nonspecific and include pica, reduced feed intake, growth, and milk production.

Sulfur— Functions as a component of certain amino acids and B-vitamins. Also, it functions in certain detoxification reactions in the body. All sulfur containing compounds except for biotin and thiamin can be synthesized from methionine. Deficiency: severe deficiency results in anorexia, weakness, dullness, emaciation, excessive salivation, and death.

Micro Minerals

Cobalt— Functions as a component of Vitamin B12, which is important in the recycling of methionine. Also, it aids in digestion and proper use of carbohydrates. Deficiency: includes decreased appetite, failure to grow or moderate weight loss; in severe cases, rapid weight loss, pale skin and mucous membranes.

Copper— Functions as an essential component of a number of enzyme activities Sulfur reduces copper absorption perhaps via formation of copper sulfide in the gut. Deficiency: includes anemia, reduced growth, cardiac failure, fragile bones, diarrhea, and low reproduction characterized by delayed or depressed estrus.

Iodine— Functions as an essential component of the thyroid hormones. Deficiency: includes enlargement of the thyroid, calves born hairless, weak or dead; in cows, irregular cycling and low conception rate, retained placenta; in males, decreased libido and semen quality.

Iron— An essential component of a number of proteins involved in oxygen transport or utilization. Deficiency: results in anemia, listlessness, reduced feed intake, pale mucus membranes, and atrophy of the papillae of the tongue. Iron deficiency can occur in young calves fed exclusively milk.

Manganese— Functions as an activator for a number of enzymes and is essential for bone development. Deficiency: in calves, stiffness, twisted legs, enlarged joints, and weak bones. In cows, depressed estrus, abortion, stillbirths, and low birth weights.

Selenium— Functions in enzyme reactions that prevents oxidative damage to the body tissues. The function of Vitamin E and selenium are interrelated and a diet low in Vitamin E may increase the amount of selenium needed to prevent certain abnormalities such as white muscle disease. High dietary sulfur has resulted in an increased incidence of white muscle disease in some cases. Selenium-depleted cattle have shown reduced immune responses in some cases.

Zinc— Essential for normal development and functioning of the immune system. Also involved in nucleic acid, protein and carbohydrate metabolism. Deficiency: includes reduced testicular growth, swollen feet with open scaly lesions, parakeratotic lesions that are most severe around legs, neck, head and nostrils.

MINERALS USES FOR LIVESTOCK

<p>Cattle grazing lush pastures and small grain pastures.</p>	<p>Sweet Hi-Mag Pasture Mineral and Sweet Mag Mineral Block. Anaplasmosis Vitamin-Mineral Supplement. 4% Phosphorus Livestock Mineral (For stocker cattle only). Summer Health Mineral with Rabon Oral Larvicide and Chlortetracycline.</p>
<p>Breeding or lactating cows grazing below average pasture conditions.</p>	<p>10% Phosphorus Livestock Mineral. 15% Phosphorus Livestock Mineral. 12/12 Cattle Mineral. Anaplasmosis Vitamin-Mineral Supplement. Summer Health Mineral with Rabon Oral Larvicide and Chlortetracycline.</p>
<p>Breeding or late lactating cows grazing average to above average pasture conditions.</p>	<p>4% Phosphorus Livestock Mineral and 4% Phosphorus Mineral Block (For stocker and dry cows only). 10% Phosphorus Livestock Mineral. 12/12 Cattle Mineral. Anaplasmosis Vitamin-Mineral Supplement. Summer Health Mineral with Rabon Oral Larvicide and Chlortetracycline.</p>
<p>Feedlot cattle on high grain diet.</p>	<p>4% Phosphorus Livestock Mineral. All Stock 4% Phosphorus Mineral Block.</p>
<p>High lactating cows or dairy cows.</p>	<p>15% Phosphorus Dairy Mineral. 12/12 Cattle Mineral.</p>
<p>Horses fed alfalfa or grass hay or grazing on pasture.</p>	<p>12/12 Horse Mineral All Stock 4% Phosphorus Mineral Block</p>
<p>Sheep and goats grazing pastures.</p>	<p>Preferred Mineral for Sheep & Goat</p>
<p>Goats on pasture.</p>	<p>Meat & Show Goat Mineral</p>

Product Code:

0500

VEEMIN
4% PHOSPHORUS
LIVESTOCK MINERAL

For Beef Cattle on Pasture. For Lactating and Non-lactating Dairy Cattle on Pasture and for all equine classes.

GUARANTEED ANALYSIS:

Calcium (Ca), min.....	20.00%
Calcium (Ca), max.....	24.00%
Phosphorus (P), min.....	4.00%
Salt, (NaCl), min.....	24.00%
Salt, (NaCl), max.....	28.00%
Magnesium (Mg), min.....	0.10%
Potassium (K), min.....	0.02%
Copper (Cu), min.....	70 ppm
Iodine, (I), min.....	15 ppm
Selenium (Se), min.....	1.00 ppm
Zinc (Zn), min.....	600 ppm
Vitamin A, min.....	20,000 IU/LB.
Vitamin D3, min.....	2,500 IU/LB.

INGREDIENTS:

Calcium Carbonate, Dicalcium Phosphate, Salt, Manganous Oxide, Magnesium Oxide, Ferrous Sulfate, Potassium Chloride, Iron Oxide, Zinc Oxide, Copper Sulfate, Cobalt Carbonate, Ethylenediamine Dihydriodide, Vitamin A Supplement, D-Activated Animal Sterol (source of Vitamin D3), Molasses Products, Natural and Artificial Flavors added, Vegetable Fat, Processed Grain By-Products, Magnesium-Mica, Calcium Iodate and Sodium Selenite.

FEEDING DIRECTIONS:

Big V 4% Phosphorus Mineral may be successfully self fed to all types of beef, lactating and non-lactating dairy cattle on pasture and horses. Put out fresh weekly, near the water supply. Covered feeders are recommended. Extra salt not recommended as this is a complete mineral supplement.

For mixing, add 150 lbs. per ton of bulk feed for cattle consuming 5 lbs. of feed per day.

Feed to beef, lactating and non-lactating dairy cattle on pasture at the rate of 6-6 1/2 oz. per head per day.

Feed to horses at the rate of 6-6 1/2 oz. per head per day.

DO NOT FEED TO SHEEP.

Available in 50 Lb. (22.68 kg.)

Product Code:

0530

VEEMIN
4% PHOSPHORUS
MINERAL BLOCK

For Beef Cattle on Pasture. For Lactating and Non-lactating Dairy Cattle on Pasture. For All Classes of Horses. For Maintenance of Sheep and Goats on Pasture.

GUARANTEED ANALYSIS:

Calcium (Ca), min.....	15.00%
Calcium (Ca), max.....	18.00%
Phosphorus (P), min.....	4.00%
Salt, (NaCl), min.....	25.00%
Salt, (NaCl), max.....	30.00%
Magnesium (Mg), min.....	0.20%
Potassium (K), min.....	0.10%
Iodine, (I), min.....	125 ppm
Selenium (Se), min.....	0.20 ppm
Zinc (Zn), min.....	180 ppm
Vitamin A, min.....	10,000 IU/LB.
Vitamin D3, min.....	5,000 IU/LB.

INGREDIENTS:

Calcium Carbonate, Dicalcium Phosphate, Salt, Manganous Oxide, Iron Oxide, Zinc Oxide, Cobalt Carbonate, Ethylenediamine Dihydriodide, Vitamin A Supplement, D-Activated Animal Sterol (source of Vitamin D3), Molasses Products, Natural and Artificial Flavors added, Vegetable Fat, Magnesium-Mica, Lignin Sulfonate, Processed Grain By-Products, Sodium Selenite and Calcium Iodate.

FEEDING DIRECTIONS:

All Stock 4% Mineral Block may be successfully self fed to all types of beef, lactating and non-lactating dairy cattle, horses, sheep and goats. Put out fresh weekly, near the water supply. Covered feeders are recommended. Extra salt not recommended as this is a complete mineral supplement.

Feed to beef, lactating and non-lactating dairy cattle on pasture at the rate of 6 to 6 1/2 oz. per head per day.

Feed to horses on pasture at the rate of 6 to 6 1/2 oz. per head per day. Feed to sheep and goats on pasture at the rate of 1-1/2 to 2 lbs. per head per month.

Available in 50 Lb. (22.68 kg.)

Product Code:

0515

VEEMIN
10% PHOSPHORUS
LIVESTOCK MINERAL

*For Beef Cattle on Pasture. For Lactating and Non-lactating Dairy Cattle
on Pasture and for all equine classes.*

GUARANTEED ANALYSIS:

Calcium (Ca), min.....	19.00%
Calcium (Ca), max.....	22.00%
Phosphorus (P), min.....	10.00%
Salt, (NaCl), min.....	15.00%
Salt, (NaCl), max.....	18.00%
Magnesium (Mg), min.....	0.25%
Potassium (K), min.....	0.05%
Copper (Cu), min.....	70 ppm
Selenium (Se), min.....	1.00 ppm
Zinc (Zn), min.....	600 ppm
Vitamin A, min.....	20,000 IU/LB.
Vitamin D3, min.....	2,500 IU/LB.

INGREDIENTS:

Calcium Carbonate, Dicalcium Phosphate, Salt, Manganous Oxide, Magnesium Oxide, Ferrous Sulfate, Potassium Chloride, Iron Oxide, Zinc Oxide, Copper Sulfate, Cobalt Carbonate, Ethylenediamine Dihydriodide, Vitamin A Supplement, D-Activated Animal Sterol (source of Vitamin D3), Molasses Products, Natural and Artificial Flavors Added, Vegetable Fat, Processed Grain By-Products, Magnesium-Mica, Calcium Iodate and Sodium Selenite.

FEEDING DIRECTIONS:

Big V 10% Phosphorus Livestock Mineral may be successfully self fed to all types of beef cattle, lactating and non-lactating dairy cattle on pasture and horses. Put out fresh weekly, near the water supply. Covered feeders are recommended. Extra salt not recommended as this is a complete mineral supplement. For mixing, add 70 lbs. per ton of bulk feed for cattle consuming 5 lbs. of feed per day.

Feed to beef cattle, lactating and non-lactating dairy cattle on pasture at the rate of 2 1/2 to 3 oz. per head per day.

Feed to horses at the rate of 2 1/2 to 3 oz. per head per day.

DO NOT FEED TO SHEEP.

Available in 50 Lb. (22.68 kg.)

Product Code:

0520

VEEMIN

12/12 CATTLE MINERAL

For Beef Cattle on Pasture. For Lactating and Non-lactating Dairy Cattle on Pasture.

GUARANTEED ANALYSIS:

Calcium (Ca), min.....	12.00%
Calcium (Ca), max.....	14.00%
Phosphorus (P), min.....	12.00%
Salt (NaCl), min.....	4.00%
Salt (NaCl), max.....	6.00%
Magnesium, min.....	0.75%
Potassium (K), min.....	0.25%
Copper (Cu), min.....	2,500 ppm
Iodine (I), min.....	300 ppm
Selenium, min.....	5.00 ppm
Zinc (Zn), min.....	8,000 ppm
Vitamin A, min.....	200,000 IU/lb
Vitamin D3, min.....	50,000 IU/lb
Vitamin E, min.....	25 IU/lb

INGREDIENTS:

Monocalcium Phosphate, Dicalcium Phosphate, Salt, Manganous Oxide, Calcium Carbonate, Magnesium Oxide, Ferrous Sulfate, Potassium Chloride, Zinc Oxide, Copper Sulfate, Cobalt Carbonate, Ethylenediamine Dihydriodide, Vitamin A Supplement, D-Activated Animal Sterol (source of Vitamin D3), Natural and Artificial Flavors Added, Sodium Selenite, Vitamin E Supplement, Processed Grain By-Products, Vegetable Fat, Molasses Products, Magnesium-Mica, Calcium Iodate, Copper Oxide, Choline Chloride, Ethoxyquin and BHA (as Preservative), Niacin, d-Calcium Pantothenate, Biotin, Thiamine Mononitrate, Riboflavin, Pyridoxine Hydrochloride, Vitamin B-12 Supplement, Folic Acid, Menadione Sodium Bisulfite Complex, Iron Oxide.

FEEDING DIRECTIONS:

Big V 12/12 Cattle Mineral may be successfully self fed to all types of beef cattle, lactating and non-lactating dairy cattle on pasture. Put out fresh weekly, near the water supply. Covered feeders are recommended. Additional salt may be required. Feed to beef cattle, lactating and non-lactating dairy cattle on pasture at the rate of 2-2 1/2 oz. per head per day.

DO NOT FEED TO SHEEP

Available in 50 Lb. (22.68 kg.)

Product Code:

0545

VEEMIN

12/12 HORSE MINERAL

For All Equine Animal Classes.

GUARANTEED ANALYSIS:

Calcium (Ca), min.....	12.00%
Calcium (Ca), max.....	14.00%
Phosphorus (P), min.....	12.00%
Salt (NaCl), min.....	4.00%
Salt (NaCl), max.....	6.00%
Magnesium, min.....	0.75%
Potassium (K), min.....	0.25%
Copper (Cu), min.....	2,500 ppm
Iodine (I), min.....	300 ppm
Selenium, min.....	5.00 ppm
Zinc (Zn), min.....	8,000 ppm
Vitamin A, min.....	200,000 IU/Lb
Vitamin D3, min.....	50,000 IU/lb
Vitamin E, min.....	25 IU/lb

INGREDIENTS:

Monocalcium Phosphate, Dicalcium Phosphate, Salt, Manganous Oxide, Calcium Carbonate, Magnesium Oxide, Ferrous Sulfate, Potassium Chloride, Zinc Oxide, Copper Sulfate, Cobalt Carbonate, Ethylenediamine Dihydriodide, Vitamin A Supplement, D-Activated Animal Sterol (source of Vitamin D3), Natural and Artificial Flavors Added, Sodium Selenite, Vitamin E Supplement, Processed Grain By-Products, Vegetable Fat, Molasses Products, Magnesium-Mica, Calcium Iodate, Copper Oxide, Choline Chloride, Ethoxyquin and BHA (as Preservative), Niacin, d-Calcium Pantothenate, Biotin, Thiamine Mononitrate, Riboflavin, Pyridoxine Hydrochloride, Vitamin B-12 Supplement, Folic Acid, Menadione Sodium Bisulfite Complex, Iron Oxide.

FEEDING DIRECTIONS:

Big V 12/12 Horse Mineral may be successfully self fed to all types of horses on pasture. Put out fresh weekly, near the water supply.

Covered feeders are recommended. Additional salt may be required.

Feed to all equine animal classes at the rate of 2 to 2-1/2 ounces per head per day.

Available in 25 Lb. (11.34 kg.)

Product Code:

0525

VEEMIN
15% PHOSPHORUS
LIVESTOCK MINERAL

GUARANTEED ANALYSIS:

Calcium (Ca), min.....	14.00%
Calcium (Ca), max.....	16.50%
Phosphorus (P), min.....	15.00%
Salt, (NaCl), min.....	10.00%
Salt, (NaCl), max.....	15.00%
Magnesium (Mg), min.....	0.40%
Potassium (K), min.....	0.05%
Copper (Cu), min.....	65 ppm
Iodine, (I), min.....	100 ppm
Selenium (Se), min.....	1.00 ppm
Zinc (Zn), min.....	600 ppm
Vitamin A, min.....	40,000 IU/LB
Vitamin D3, min.....	5,000 IU/LB

INGREDIENTS:

Calcium Carbonate, Dicalcium Phosphate, Salt, Manganous Oxide, Magnesium Oxide, Ferrous Sulfate, Iron Oxide, Zinc Oxide, Cobalt Carbonate, Ethylenediamine Dihydriodide, Vitamin A Supplement (stability improved), D-Activated Animal Sterol (source of Vitamin D3), Natural and Artificial Flavors Added, Vegetable Fat, Copper Sulfate, Potassium Chloride, Calcium Iodate, Molasses Products, Processed Grain By-Products and Sodium Selenite.

FEEDING DIRECTIONS:

Big V 15% Phosphorus Livestock Mineral may be successfully self fed to all types of beef, lactating and non-lactating dairy cattle and horses. Put out fresh weekly near the water supply. Covered feeders are recommended. Additional salt may be required.

For mixing, add 45 pounds per ton of bulk feed for cattle consuming 5 pounds of feed per day.

Feed to beef, lactating and non-lactating dairy cattle on pasture at the rate of 1-1/2 to 2 oz. per head per day.

Feed to horses at the rate of 1-1/2 to 2 oz. per head per day.

DO NOT FEED TO SHEEP.

Available in 50 Lb. (22.68 kg.)

Product Code:

0535

VEEMIN
15% PHOSPHORUS
DAIRY MINERAL

For Lactating and Non-Lactating Dairy Cattle

GUARANTEED ANALYSIS:

Calcium (Ca), min.....	12.50%
Calcium (Ca), max.....	15.00%
Phosphorus (P), min.....	15.00%
Salt, (NaCl), min.....	9.50%
Salt, (NaCl), max.....	10.90%
Magnesium (Mg), min.....	0.40%
Potassium (K), min.....	0.10%
Iodine, (I), min.....	300 ppm
Vitamin A, min.....	100,000 IU/LB.
Vitamin D3, min.....	50,000 IU/LB.
Vitamin E, min.....	50 IU/LB.

INGREDIENTS:

Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Manganous Oxide, Magnesium Oxide, Ferrous Sulfate, Calcium Iodate, Iron Oxide, Zinc Oxide, Copper Sulfate, Cobalt Carbonate, Ethylenediamine Dihydriodide, Vitamin A Supplement, D-Activated Animal Sterol (source of Vitamin D3), Molasses Products, Natural and Artificial Flavors Added, Vitamin E Supplement, Vegetable Fat, Processed Grain By-Products and Potassium Chloride.

FEEDING DIRECTIONS:

Big V 15% Phosphorus Dairy Mineral may be successfully self fed free choice. Put out fresh weekly near the water supply. Covered feeders are recommended. Big V 15% Phosphorus Dairy Mineral is a complete mineral supplement. Additional salt may be required.

Feed to lactating and non-lactating dairy cattle at the rate of 1-1/2 to 2 oz. per head per day.

DO NOT FEED TO SHEEP.

Available in 50 Lb. (22.68 kg.)

Product Code:

0540

VEEMIN
SWEET HI-MAG
PASTURE MINERAL

For Beef, Lactating and Non-Lactating Dairy Cattle on Pasture.

GUARANTEED ANALYSIS:

Calcium (Ca), min.....	5.00%
Calcium (Ca), max.....	6.00%
Phosphorus (P), min.....	2.00%
Salt (NaCl), min.....	16.00%
Salt (NaCl), max.....	18.00%
Magnesium (Mg), min.....	13.50%
Potassium (K), min.....	0.50%
Copper (Cu), min.....	45 ppm
Iodine (I), min.....	150 ppm
Selenium (Se), min.....	5 ppm
Zinc (Zn), min.....	380 ppm
Vitamin A, min.....	80,000 IU/LB.
Vitamin D3, min.....	20,000 IU/LB.

INGREDIENTS:

Salt, Magnesium Oxide, Dicalcium Phosphate, Calcium Carbonate, Manganous Oxide, Ferrous Sulfate, Iron Oxide, Copper Sulfate, Zinc Oxide, Cobalt Carbonate, Ethylenediamine Dihydriodide, D-Activated Animal Sterol (Source of Vitamin D3), Vitamin A Supplement, Molasses Products, Vegetable Fat, Natural and Artificial Flavors Added, Processed Grain By-Products, Magnesium-Mica, Calcium Iodate, Potassium Chloride, Sodium Selenite.

FEEDING DIRECTIONS:

Big V Sweet Hi-Mag Pasture Mineral is formulated especially to supplement magnesium deficiencies in lush green pasture. For best results, Big V Sweet Hi-Mag Pasture Mineral should be fed several days before livestock are placed on lush green pasture. Salt and other minerals should be removed to insure adequate intake. Put out fresh Big V Sweet Hi-Mag Pasture Mineral as needed near water supply. Feed to beef, lactating and non-lactating dairy cattle on pasture at the rate of 4-8 oz. per head per day to supply 15.3 to 30.6 grams of magnesium.

OR—Mix 50 pounds per ton of grain for animals consuming 20 pounds of grain per day to provide 8 oz. per head per day.

NOTE: This product contains added Selenium. Do not permit excessive consumption. The consumption rate of 6.75 ounces per head per day will provide 1 milligram of supplemental Selenium per head per day. Maximum permitted level of supplemental Selenium is 3 milligrams per head per day.

DO NOT FEED TO SHEEP.

Available in 50 Lbs. (22.68 kg.)

Product Code:

0974

VEEMIN
SWEET MAG
MINERAL BLOCK

For Beef Cattle on Pasture.
For Lactating and Non-lactating Dairy Cattle on Pasture.

GUARANTEED ANALYSIS:

Calcium (Ca), min.....	5.00%
Calcium (Ca), max.....	6.00%
Phosphorus (P), min.....	2.00%
Salt, (NaCl), min.....	14.00%
Salt, (NaCl), max.....	16.00%
Magnesium (Mg), min.....	13.50%
Potassium (K), min.....	0.50%
Copper (Cu), min.....	40 ppm
Iodine, (I), min.....	150 ppm
Zinc (Zn), min.....	360 ppm
Vitamin A, min.....	80,000 IU/LB.
Vitamin D3, min.....	20,000 IU/LB.

INGREDIENTS:

Processed Grain By-Products, Roughage Products, Molasses Products, Calcium Carbonate, Dicalcium Phosphate, Salt, Manganous Oxide, Magnesium Oxide, Ferrous Sulfate, Iron Oxide, Copper Sulfate, Zinc Oxide, Cobalt Carbonate, Ethylenediamine Dihydriodide, Vitamin A Supplement, D-Activated Animal Sterol (source of Vitamin D3), Natural and Artificial Flavors added, Vegetable Fat, Potassium Chloride, Magnesium-Mica, Calcium Iodate.

FEEDING DIRECTIONS:

Big V Sweet Mag Mineral should be placed before animals during grazing season. For best results, Sweet Mag Mineral should be fed several days before livestock are placed on pasture. Salt and other mineral should be removed to insure adequate intake. Put out fresh Sweet Mag Mineral once a week near water supply. Feed to beef, lactating and non-lactating dairy cattle on pasture at the rate of 4 to 8 oz. per head per day will supply 15.3 to 30.6 grams of magnesium.

DO NOT FEED TO SHEEP

Available in 50 Lb. (22.68 kg.)

Product Code:

0557

VEEMIN
ANAPLASMOSIS
VITAMIN MINERAL SUPPLEMENT
(MEDICATED)

For beef cattle on pasture.

1. For the control of active infection of anaplasmosis caused by *Anaplasma marginale* susceptible to Chlortetracycline.
2. Control of bacterial pneumonia associated with shipping fever complex caused by *Pasteurella* spp. susceptible to Chlortetracycline.

ACTIVE DRUG INGREDIENT:

Chlortetracycline.....2000 mgs per lb or 4000 gms per ton

GUARANTEED ANALYSIS:

Calcium (Ca), min.....	15.00%
Calcium (Ca), max.....	18.00%
Phosphorus (P), min.....	6.00%
Salt (NaCl), min.....	11.00%
Salt (NaCl), max.....	13.00%
Magnesium (Mg), min.....	5.00%
Potassium (K), min.....	1.25%
Sulfur, min.....	1.00%
Cobalt, min.....	10 ppm
Copper (Cu), min.....	25 ppm
Iodine, min.....	20 ppm
Iron, min.....	800 ppm
Manganese, min.....	350 ppm
Selenium (Se), min.....	10 ppm
Zinc (Zn), min.....	800 ppm
Vitamin A, min.....	150,000 IU/LB
Vitamin D3, min.....	27,000 IU/LB
Vitamin E, min.....	25 IU/LB

INGREDIENTS:

Calcium Carbonate, Salt, Dicalcium Phosphate, Processed Grain By-Products, Molasses Products, Magnesium Oxide, Iron Oxide, Sodium Selenite, Ferrous Sulfate, Sulfur, Zinc Oxide, Manganous Oxide, Copper Sulfate, Ethylenediammine Dihydroiodide, Cobalt Carbonate, Vitamin A Supplement, D-Activated Animal Sterol (source of Vitamin D3), Vitamin E Supplement, Vegetable Fat, Natural and Artificial Flavors Added, Calcium Iodate, Potassium Chloride.

Continued

ANAPLASMOSIS VITAMIN-MINERAL SUPPLEMENT (CONTINUED)

FEEDING DIRECTIONS:

Mix Big V Anaplasmosis Vitamin-Mineral Supplement with feed or grain for beef cattle as per the consumption shown in the tables below.

1. For control of active infection of anaplasmosis the required daily intake of Anaplasmosis Vitamin-Mineral Supplement:

Cattle Weight	Intake Needed (To be mixed with feed or grain)	Drug Intake (Head per Day)
Under 700 Lbs.	2.8 oz.	350 mg.
Over 700 Lbs.	0.4 oz./100 lbs. of body weight	0.5 mg/lb. of body weight

Feed mixing and feeding directions for the use of Anaplasmosis Vitamin-Mineral Supplement for control of active infection of anaplasmosis:

Cattle Weight	Feed/head/day when mixed @ 100 lb/ton to give 100 mg/lb feed	Feed/head/day when mixed @ 200 lb/ton to give 200 mg/lb feed
Under 700 lb	3.5 lb	1.75 lb
Over 700 lb	1/2 lb per 100 lbs of body weight	1/4 lb per 100 lbs of body weight

2. For control of bacterial pneumonia associated with shipping fever complex each animal must consume 2.8 oz./head/day of Anaplasmosis Vitamin-Mineral Supplement to receive the required 350 mg medication.

Pounds Feed/head/day	Pounds of Supplement/ton of feed	Chlortetracycline/lb finished feed
5	70	70 mg
10	35	35 mg
15	23.33	23.33 mg

WARNING: Withdraw 48 hours prior to slaughter.

Available in 50 lbs. (22.68 kg.)

Product Code:

0560

VEEMIN
SUMMER HEALTH MINERAL
WITH RABON® ORAL LARVICIDE
AND CHLORTETRACYCLINE
(MEDICATED)

For beef cattle on pasture.

For the control of active infection of anaplasmosis caused by *Anaplasma marginale* susceptible to Chlortetracycline in cattle weighing up to 1000 pounds.

To prevent the development of horn flies, face flies, house flies and stable flies in the manure of treated cattle.

ACTIVE DRUG INGREDIENT:

Chlortetracycline.....2666 mgs per lb or 5332 gms per ton

OTHER ACTIVE INGREDIENTS:

BY WEIGHT

Tetrachlorvinphos; 2 chloro-1-(2,4,5-trichlorophenyl) vinyl dimethyl phosphate..... 0.80%

INERT INGREDIENTS*:..... 99.20%

TOTAL.....100.00%

*Refers only to ingredients which are not larvicidal.

GUARANTEED ANALYSIS:

Calcium (Ca), min.....13.00%
Calcium (Ca), max.....11.00%
Phosphorus (P), min.....8.00%
Salt (NaCl), min.....24.00%
Salt (NaCl), max.....20.00%
Magnesium (Mg), min.....2.00%
Potassium (K), min.....0.30%
Copper (Cu), min.....45 ppm
Iodine, min.....30 ppm
Selenium (Se), min.....1.6 ppm
Zinc (Zn), min.....380 ppm
Vitamin A, min.....60,000 IU/LB
Vitamin D3, min.....20,000 IU/LB

INGREDIENTS:

Dicalcium Phosphate, Salt, Molasses Products, Magnesium Oxide, Calcium Carbonate, Ethylenediammine Dihydroiodide, Cobalt Carbonate, Zinc Oxide, Copper Sulfate, Manganous Oxide, Ferrous Sulfate, Calcium Iodate, Potassium Chloride, Processed Grain By-Products, Vitamin A Supplement, D-Activated Animal Sterol (source of Vitamin D3), Vegetable Fat, Natural and Artificial Flavors Added, Sodium Selenite.

CAUTION: KEEP OUT OF REACH OF CHILDREN

Continued

**SUMMER HEALTH MINERAL WITH RABON® ORAL
LARVICIDE AND CHLORTETRACYCLINE
(CONTINUED)**

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
CAUTION**

Keep out of reach of children. Harmful if swallowed. Avoid contact with skin and eyes. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating or smoking. If in eyes, wash with plenty of water. If irritation persists, get medical attention. Wear long-sleeved shirt and pants; chemical resistant gloves; shoes and socks for protection when handling.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not contaminate water when disposing of equipment wash water.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Storage: Store in a dry place in original container.

Disposal: Completely empty container into application (mixer/feeder) equipment. Then dispose of empty bag in a sanitary landfill or by incineration or if allowed, by State and Local authorities by burning. If burned, stay out of smoke. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

DIRECTIONS FOR USE:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Feed Big V Summer Health Mineral at the rate of 3 ounces per 1000 pounds of body weight head per day by mixing it into the ground grain or complete daily ration. This consumption rate will provide 500 mg of chlortetracycline, which will control active infection of anaplasmosis. Start feeding Big V Summer Health Mineral early in the spring before flies begin to appear and continue feeding throughout the summer into the fall until cold weather restricts fly activity. Big V Summer Health Mineral prevents the development of horn flies, face flies, house flies and stable flies in the manure of treated cattle but is not effective against existing adult flies. When starting a feeding program during the fly season, it is desirable to use other control measures to reduce the population of existing adult flies.

In some cases, supplemental fly control measures may be needed in and around cattle lots and buildings to control adult house flies and stable flies which can breed not only in cattle manure but in other decaying vegetable matter or silage on the premises.

In order to achieve optimum fly control, Big V Summer Health Mineral should be used in conjunction with other good management and sanitation practices.

Available in 50 lb (22.68 kg)