



# PRODUCT GUIDE

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Dairy

# DAIRY

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# LIFELINE® RESCUE™

## Complete Colostrum Replacer

### Product Description

Rescue is a powdered complete colostrum replacer made of globulin protein produced from high-quality, nutrient-rich plasma plus fat, carbohydrates, minerals, and vitamins.

### Benefits

**Easy to use** - one calf gets one carton, saves time and eliminates wasted product

**Serum-based formulation** - mixes well, feeds easily

### Mixing Directions

Mix with 1.5 quarts of warm (105°F) water with continuous agitation with wire whisk or mechanical mixer. Feed when lumps are gone. Do not mix in hot (>140°F) water, as high temperatures may damage functional proteins.

### Feeding Directions

Feed as soon after birth as possible (within 4 hours) for best results. May be fed after 24 hours of age, but the greatest benefits are seen when fed on Day One.

### General Management Considerations

1. Provide clean, fresh water at all times.
2. Start feeding calf starter when calves are 4 days old. Start with a small amount (0.5 lb) and gradually increase as the calf's consumption increases. Provide a fresh amount each day to stimulate consumption.
3. Wean calves when consuming 2 lb/day of calf starter.



## RESCUE™

A complete colostrum replacer for newborn dairy and beef calves.

### GUARANTEED ANALYSIS

Crude Protein, min.....	50%
Crude Fat, min .....	15%
Crude Fiber, max .....	0.25%
Calcium, min .....	0.4%
Calcium, max.....	0.9%
Phosphorus, min.....	0.3%
Vitamin A, min .....	50,000 IU/lb
Globulin Protein, min.....	27%/150 g

### INGREDIENTS

Bovine Serum Globulin, Animal & Vegetable Fat (Preserved with BHA & BHT), Dried Whey, Dried Whey Protein Concentrate, Dextrose, Lactose, Calcium Carbonate, Glycine, Salt, Fructose, Lecithin, Mineral Oil, Potassium Chloride, Magnesium Sulfate, Choline Chloride, Polyoxyethylene Glycol 400 (Mono & Dioleates), Natural & Artificial Flavors, Vitamin E Supplement, Silicon Dioxide, Zinc Protein, Dicalcium Phosphate, Ferrous Sulfate, Manganese Protein, Vitamin A Acetate, Selenium Yeast, Brewers Dried Yeast, Iron Protein, Ascorbic Acid, Calcium Pantothenate, Vitamin B12 Supplement, Vitamin D3 Supplement, Niacinamide, Riboflavin, Biotin, Pyridoxine Hydrochloride, Thiamine Mononitrate, Folic Acid, Calcium Iodate, Menadione Sodium Bisulfite Complex (source of Vitamin K3), Cobalt Sulfate

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 Headquarters in Muscatine, IA 52761

### Other Species Mixing/Feeding Directions

SPECIES	MIXING RECOMMENDATIONS	FEEDING RECOMMENDATIONS
Puppy	Mix 2 T Rescue in 1/4 C water, mix well.	Feed 1 T per 1/4 lb of body weight every 2-3 hours.
Lamb	Mix 1/2 C Rescue in 1 C warm water, mix well.	Feed .25-.5 C (2-4 oz) every 4 hours
Fawn	Mix 1/2 C Rescue in 1 C warm water, mix well.	Feed .25-.5 C (2-4 oz) every 4 hours
Alpaca cria	Mix 1 C Rescue in 2 C warm water, mix well.	Feed .5-.75 C (4-6 oz) every 4 hours
Kid	Mix 1 C Rescue in 2 C warm water, mix well.	Feed .5-.75 C (4-6 oz) every 4 hours
Llama cria	Mix 1 C Rescue in 2 C warm water, mix well.	Feed .75-1 C (6-8 oz) every 4 hours
Foal	Mix entire pouch of Rescue (550 g) in 2 quarts of water, mix well.	Feed 1 pint every 2-3 hours

# LIFELINE® INTERVENE™

## Nutritional Supplement for Scouring Calves

### Product Description

Intervene is a powdered nutritional supplement for calves suffering from scours or other stress-related problems. Formulated to help establish normal intestinal health, replenish lost fluids and provide energy needed for optimal health and performance. Made of natural globulin protein produced from high-quality, nutrient-rich plasma, plus minerals and vitamins.

### Benefits

**Easy to use** - individual, easy-mix pouches make it simple to feed Intervene twice daily for 5 days with no measuring or confusing feeding calculations

**Serum-based formulation** - mixes well, feeds easily for quick, visible results

### Mixing Directions

Mix one pouch with 2 quarts of warm (105°F) water with continuous agitation with wire whisk or mechanical mixer. Feed when completely dissolved. Do not mix in hot (>140°F) water, as high temperatures may damage functional proteins.

### Feeding Directions

Feed at the first sign of stress-related problems. Feed to calf via nipple feeder twice daily for 5 days. Feed in addition to milk or milk replacer. Do not feed additional electrolytes to the calf while feeding Intervene.

### General Management Considerations

1. Provide clean, fresh water at all times.
2. Start feeding calf starter when calves are 4 days old. Start with a small amount (0.5 lb) and gradually increase as the calf's consumption increases. Provide a fresh amount each day to stimulate consumption.
3. Wean calves when consuming 2 lb/day of calf starter.



## INTERVENE™

A nutritional supplement for scouring calves.

### GUARANTEED ANALYSIS

Crude Protein, min.....	44%
Crude Fat, min .....	0.5%
Crude Fiber, max .....	0.25%
Calcium, min .....	0.4%
Calcium, max.....	0.9%
Potassium, min.....	1.0%
Phosphorus, min.....	0.1%
Salt, min .....	6.75%
Salt, max .....	8.1%
Sodium, min .....	3.5%
Sodium, max .....	4.5%
Vitamin A, min .....	60,000 IU/lb
Vitamin D, min .....	20,000 IU/lb
Vitamin E, min.....	100 IU/lb

### INGREDIENTS

Bovine Serum, Dextrose, Sodium Acetate, Glycine, Potassium Chloride, Salt, Maltodextrin, Sorbitol, Magnesium Sulfate, Inulin, Calcium Lactate, Calcium Carbonate, DL-Methionine, Lecithin, Mineral Oil, Silicon Dioxide, Choline Chloride, Polyoxyethylene Glycol 400 (Mono & Dioleates), Natural & Artificial Flavors, Dried Whey Protein Concentrate, Dicalcium Phosphate, Zinc Sulfate, Vitamin E Supplement, Manganese Sulfate, Vitamin A Acetate, Copper Sulfate, Ascorbic Acid, Calcium Iodate, Vitamin D3 Supplement, Vitamin B12 Supplement, Sodium Selenite, Niacinamide, Biotin, Calcium Pantothenate, Menadione Sodium Bisulfite Complex (Source Of Vitamin K3), Sodium Bicarbonate, Folic Acid, Riboflavin, Pyridoxine Hydrochloride, Cobalt Sulfate, Thiamine Mononitrate

Manufactured for

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# LIFELINE® NOURISH™ (BEEF & DAIRY) Colostrum Replacer

## Product Description

Lifeline Nourish (Beef & Dairy) is a powdered complete colostrum replacer made of globulin protein produced from high-quality, nutrient-rich plasma plus fat, carbohydrates, minerals, and vitamins.

## Benefits

**Easy mixing** - serum-based formula mixes smooth in under a minute

**Convenient** - add one carton to 1.5 quarts warm water and stir well with whisk

## Mixing Directions

Mix with 1.5 quarts of warm (105°F) water with continuous agitation with wire whisk or mechanical mixer. Feed when lumps are gone. Do not mix in hot (>140°F) water, as high temperatures may damage functional proteins.

## Feeding Directions

Nourish is the first feeding and has its greatest impact when fed within 4 hours of birth. Mix 1 package with 1.5 quarts of warm (105°F/40°C) water. Stir until completely dissolved. Feed to the calf in one feeding via nipple feeder or esophageal feeder as soon as possible following birth.

Lifeline Nourish is designed to REPLACE maternal colostrum. Lifeline Protect Beef is a colostrum supplement that can be fed *in addition to* maternal colostrum on Day One.

## General Management Considerations

1. Provide clean, fresh water at all times.
2. Start feeding calf starter when calves are 4 days old. Start with a small amount (0.5 lb) and gradually increase as the calf's consumption increases. Provide a fresh amount each day to stimulate consumption.
3. Wean calves when consuming 2 lb/day of calf starter.



# LIFELINE® NOURISH™ (BEEF & DAIRY)

A colostrum replacer for newborn beef and dairy calves.

## GUARANTEED ANALYSIS

Crude Protein, min.....	35%
Crude Fat, min .....	25%
Crude Fiber, max .....	0.25%
ADF, max .....	1.0%
Calcium, min .....	0.4%
Calcium, max.....	0.9%
Phosphorus, min.....	0.4%
Salt, min .....	1.6%
Salt, max .....	2.1%
Sodium, min .....	0.7%
Sodium, max .....	1.2%
Potassium, min.....	0.2%
Selenium, min.....	8 ppm
Vitamin A, min .....	50,000 IU/lb
Globulin, min .....	20%

## INGREDIENTS

Bovine Serum Globulin, Animal & Vegetable Fat (Stabilized with BHA & BHT), Dried Whey, Whey Protein Concentrate, Lactose, Dextrose, Calcium Carbonate, Salt, Fructose, Potassium Chloride, Lecithin, Magnesium Sulfate, Choline Chloride, Mineral Oil, Natural & Artificial Flavors, Polyoxyethylene Glycol 400 (Mono & Dioleates), Vitamin E Supplement, Silicon Dioxide, Zinc Proteinate, Dicalcium Phosphate, Ferrous Sulfate, Manganese Proteinate, Vitamin A Acetate, Selenium Yeast, Brewer's Dried Yeast, Iron Proteinate, Ascorbic Acid, d-Calcium Pantothenate, Vitamin B12 Supplement, Vitamin D3 Supplement, Niacinamide, Sodium Selenite, Riboflavin, Biotin, Pyridoxine Hydrochloride, Thiamine Mononitrate, Folic Acid, Calcium Iodate, Menadione Sodium Bisulfite Complex (Source of Vitamin K activity), Cobalt Sulfate

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# LIFELINE® PROTECT™

## BEEF

### Colostrum Supplement

#### Product Description

Protect Beef is a powdered colostrum supplement made of globulin protein produced from high-quality, nutrient-rich plasma plus fat, carbohydrates, minerals, and vitamins.

#### Benefits

**Easy mixing** - serum-based formula mixes smooth in under a minute

**Simple and Convenient** - mix one single-feeding carton to 1.5 quarts warm water and stir well with whisk, anywhere you need it

#### Mixing Directions

Mix with 1.5 quarts of warm (105°F) water with continuous agitation with wire whisk or mechanical mixer. Feed when lumps are gone. Do not mix in hot (>140°F) water, as high temperatures may damage functional proteins.

#### Feeding Directions

Bottle feed entire mixture in a single feeding as soon after birth as possible (within 2 hours) for best results. Ideally, should be fed within 24 hours of birth for the greatest benefit.

Protect Beef is designed to SUPPLEMENT maternal colostrum. Lifeline Nourish Beef is a REPLACEMENT for maternal colostrum on Day One.

#### General Management Considerations

1. Provide clean, fresh water at all times.
2. Start feeding calf starter when calves are 4 days old. Start with a small amount (0.5 lb) and gradually increase as the calf's consumption increases. Provide a fresh amount each day to stimulate consumption.
3. Wean calves when consuming 2 lb/day of calf starter.



## PROTECT™ BEEF

A colostrum supplement for newborn beef calves.

#### GUARANTEED ANALYSIS

Crude Protein, min .....	40%
Crude Fat, min .....	20%
Crude Fiber, max .....	1.0%
Ash, max .....	10%
Calcium, min .....	0.1%
Calcium, max.....	0.6%
Phosphorus, min.....	0.2%
Potassium, min.....	0.3%
Salt, min .....	2.3%
Salt, max .....	2.8%
Sodium, min .....	1.0%
Sodium, max .....	1.5%
Globulin Protein, min.....	11%/50 g
Albumin Protein, min.....	28%

#### INGREDIENTS

Bovine Serum, Animal & Vegetable Fat (Preserved with BHA & BHT), Dried Whey, Dried Whey Protein Concentrate, Lactose, Dextrose, Salt, Glycine, Silicon Dioxide, Titanium Dioxide, Lecithin, Potassium Chloride, Mineral Oil, Polyoxyethylene Glycol 400 (Mono & Dioleates), Natural & Artificial Flavors, Magnesium Sulfate

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# LIFELINE® PROTECT™

## DAIRY

### Colostrum Supplement

#### Product Description

Protect Dairy is a powdered colostrum supplement made of globulin protein produced from high-quality, nutrient-rich plasma plus minerals and glycine.

#### Benefits

**Easy mixing** - serum-based formula mixes smooth in under a minute

**Convenient** - add one carton to 1.5 quarts warm water and stir well with whisk

#### Mixing Directions

Mix with 1.5 quarts of warm (105°F) water with continuous agitation with wire whisk or mechanical mixer. Feed when lumps are gone. Do not mix in hot (>140°F) water, as high temperatures may damage functional proteins.

#### Feeding Directions

Bottle feed entire mixture in a single feeding within 2 to 4 hours of birth for best results. A second feeding of Protect Dairy should be given 8 to 12 hours after first feeding. Ideally, all feedings of Protect Dairy should be completed within 24 hours of birth. Protect Dairy is most effective when fed prior to 24 hours of age.

Protect Dairy is designed to SUPPLEMENT maternal colostrum. Lifeline Nourish Dairy is a REPLACEMENT for maternal colostrum on Day One.

#### General Management Considerations

1. Provide clean, fresh water at all times.
2. Start feeding calf starter when calves are 4 days old. Start with a small amount (0.5 lb) and gradually increase as the calf's consumption increases. Provide a fresh amount each day to stimulate consumption.
3. Wean calves when consuming 2 lb/day of calf starter.



## PROTECT™ DAIRY

A colostrum supplement for newborn dairy calves.

#### GUARANTEED ANALYSIS

Crude Protein, min.....	40%
Crude Fat, min .....	0.5%
Crude Fiber, max .....	1.0%
Calcium, min .....	0.2%
Calcium, max.....	0.7%
Phosphorus, min.....	0.2%
Globulin Protein, min.....	11%/50 g
Albumin Protein, min.....	28%

#### INGREDIENTS

Bovine Serum, Lactose, Dried Whey, Dextrose, Salt, Silicon Dioxide, Titanium Dioxide, Lecithin, Glycine, Potassium Chloride, Mineral Oil, Polyoxyethylene Glycol 400 (Mono & Dioleates), Natural and Artificial Flavors, Magnesium Sulfate

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# MILK FORMULA 1™

## Non-Medicated

### PRODUCT DESCRIPTION

Milk Formula 1™ is a premium all-milk protein milk replacer formulated to meet the nutritional needs of the newborn calf.

### FEATURES AND BENEFITS

**20% protein** from all-milk proteins

**20% high-quality fat** that is protein encapsulated for good suspension

**Processed by the KwikMix™ process** for easy mixing

**Contains BoVantage® technology and MOS** for healthy performance and immune system support

**Fortified with high levels of vitamins A, D and E**

**Contains National Research Council recommended levels of the B vitamins**

**Contains required minerals and trace minerals** from highly available sources, including selenium from selenium yeast

### MEDICATION OPTIONS

- **Non-medicated** #5418, 50-lb; #5417, 25-lb

- **NT\*** (#5405, 50-lb; #5416, 25-lb)

Neomycin Sulfate .....1,600 g/ton

Oxytetracycline.....1,600 g/ton

(from oxytetracycline dihydrate base) equivalent to oxytetracycline hydrochloride

For treatment of bacterial enteritis caused by *Escherichia coli* and bacterial pneumonia (shipping fever complex) caused by *Pasteurella multocida*

susceptible to oxytetracycline; treatment and control of colibacillosis (bacterial enteritis) caused by *Escherichia coli* susceptible to neomycin.

- **ClariFly®** in combination with NT (#5406, 50-lb; #5415, 25-lb) during fly season.

Diflubenzuron.....13.6 g/ton

For preventing development of house, stable, face and horn flies in the manure of treated calves.

Neomycin Sulfate .....1,600 g/ton

Oxytetracycline.....1,600 g/ton

(from oxytetracycline dihydrate base) equivalent to oxytetracycline hydrochloride

For treatment of bacterial enteritis caused by *Escherichia coli* and bacterial pneumonia (shipping fever complex) caused by *Pasteurella multocida* susceptible to oxytetracycline; treatment and control of colibacillosis (bacterial enteritis) caused by *Escherichia coli* susceptible to neomycin.

- **Bovatec®** (#5407, 50-lb)

Lasalocid.....72.6 g/ton

For control of coccidiosis caused by *Eimeria bovis* and *Eimeria zuernii*.

- **ClariFly®** in combination with BOV (#5408, 50-lb) during fly season

Diflubenzuron.....13.6 g/ton

For preventing development of house, stable, face and horn flies in the manure of treated calves.

Lasalocid.....72.6 g/ton

For control of coccidiosis caused by *Eimeria bovis* and *Eimeria zuernii*.



## MILK FORMULA 1™

### NON-MEDICATED

A milk replacer for dairy or beef calves.

### GUARANTEED ANALYSIS

Crude Protein, min .....	20.0%
Crude Fat, min .....	20.0%
Crude Fiber, max .....	0.15%
Calcium (Ca), min.....	0.75%
Calcium (Ca), max.....	1.25%
Phosphorus (P), min .....	0.7%
Vitamin A, min .....	30,000 IU/lb
Vitamin D3, min .....	10,000 IU/lb
Vitamin E, min.....	150 IU/lb

### INGREDIENTS

Dried Whey, Dried Whey Protein Concentrate, Animal and Vegetable Fat (Preserved with BHA and BHT), Dried Whey Product, Dried Skimmed Milk, Lecithin, Brewers Dried Yeast, Dried *Saccharomyces cerevisiae* Fermentation Solubles, Dicalcium Phosphate, Calcium Carbonate, DL-Methionine, L-Lysine Monohydrochloride, Vitamin A Supplement, Vitamin D3 Supplement, Vitamin E Supplement, Ascorbic Acid, Vitamin B12 Supplement, Folic Acid, Choline Chloride, Riboflavin Supplement, Niacin Supplement, Calcium Pantothenate, Thiamine Mononitrate, Pyridoxine Hydrochloride, Ferrous Sulfate, Copper Sulfate, Cobalt Sulfate, Zinc Sulfate, Manganese Sulfate, Magnesium Oxide, Ethylenediamine Dihydrochloride, Mono and Diglycerides of Edible Fats or Oils, Sodium Silico Aluminate, Selenium Yeast, Reed-Sedge Peat, Artificial Flavor.

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\*CAUTION: Federal law restricts medicated feed containing this veterinary feed directive (VFD) drug to use by, or on the order of, a licensed veterinarian.

DAIRY (M 5418)

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- **DQ** (#5413, 50-lb)  
Decoquate.....36.3 gm/ton  
For the prevention of coccidiosis in ruminating and non-ruminating calves and cattle caused by *Eimeria bovis* and *E. zuernii*.
- **ClariFly**® in combination with DQ (#5414, 50-lb) during fly season.  
Diflubenzuron.....13.6 g/ton  
For preventing development of house, stable, face and horn flies in the manure of treated calves.  
Decoquate.....36.3 gm/ton  
For the prevention of coccidiosis in ruminating and non-ruminating calves and cattle caused by *Eimeria bovis* and *E. zuernii*.

## MIXING DIRECTIONS

Mix 10 ounces\*\* (0.63 lb) of milk replacer plus 2 quarts of warm (110°F) water. Add powder to water and mix vigorously. Use of cooler water requires greater mixing action and increases the possibility of the powder settling out. Feed immediately.

\*\*The measuring cup enclosed in the bag holds approximately 10 ounces when full. Check cup volume periodically.

## FEEDING DIRECTIONS

**Birth** - Feed 3-4 quarts of colostrum immediately after birth (need to provide 100 g of IgG). Feed 2-4 additional quarts within 12 hours of birth and feed 2-4 more quarts at 24 hours of age. Always use the highest quality colostrum available. If necessary, use an esophageal feeder. Don't let the calf determine intake.

**2 Days Old Until Weaning** - Feed Milk Formula 1 until weaning. For small breed calves feed 1½ to 2 quarts of reliquefied Milk Formula 1 twice-a-day. For large breed calves feed 2 to 2½ quarts of reliquefied Milk Formula 1 twice-a-day. Continue to feed Milk Formula 1 as long as you would normally feed whole milk.

**Cold Weather Feeding Instructions** - Add 1-2 oz per feeding of Milk Energizer to increase the total energy level of the milk replacer during periods of cold stress.

## GENERAL MANAGEMENT CONSIDERATIONS

1. Provide clean, fresh water at all times.
2. Start feeding a Kent® Calf Starter when calves are 4 days old. Start with a small amount (0.5 lb) and gradually increase as the calf's consumption increases. Provide a fresh amount each day to stimulate consumption.
3. Wean calves when consuming at least 2 lb of calf starter per day for 3 consecutive days.

# MILK FORMULA 1™

## WINTERIZER

### Non-Medicated

#### PRODUCT DESCRIPTION

Milk Formula 1™ Winterizer is a higher milk protein, higher energy milk replacer formulated for winter feeding when more energy and protein is required to maintain desired growth rates.

#### FEATURES AND BENEFITS

**22% protein** from all-milk proteins

**24% high-quality fat** that is protein encapsulated for good suspension

**Processed by the KwikMix™ process** for easy mixing

**Contains BoVantage® technology and MOS** for healthy performance and immune system support

**Fortified with high levels of vitamins A, D and E**

**Contains National Research Council recommended levels of the B vitamins**

**Contains required minerals and trace minerals** from highly available sources, including selenium from selenium yeast

**Available in a 50-lb bag**

#### MEDICATION OPTIONS

- **Non-medicated #5410**

- **NT\* (#5411)**

Neomycin Sulfate .....1,600 g/ton

Oxytetracycline.....1,600 g/ton

(from oxytetracycline dihydrate base) equivalent to oxytetracycline hydrochloride

For treatment of bacterial enteritis caused by *Escherichia coli* and bacterial pneumonia (shipping fever complex) caused by *Pasteurella multocida* susceptible to oxytetracycline; treatment and control of colibacillosis (bacterial enteritis) caused by *Escherichia coli* susceptible to neomycin.

- **ClariFly®** in combination with NT (#5412) during fly season

Diflubenzuron .....13.6 g/ton

For preventing development of house, stable, face and horn flies in the manure of treated calves.

#### MIXING DIRECTIONS

Mix 10 ounces\*\* (0.63 lb) of milk replacer plus 2 quarts of warm (110°F) water. Add powder to water and mix vigorously. Use of cooler water requires greater mixing action and increases the possibility of the powder settling out. Feed immediately.

\*\* The measuring cup enclosed in the bag holds approximately 10 ounces when full. Check cup volume periodically.

#### FEEDING DIRECTIONS

**Birth** - Feed 3-4 quarts of colostrum immediately after birth (need to provide 100 g of IgG). Feed 2-4 additional quarts within 12 hours of birth and feed 2-4 more quarts at 24 hours of age. Always use the highest quality colostrum available. If necessary, use an esophageal feeder. Don't let the calf determine intake.



## MILK FORMULA 1™

### WINTERIZER

### NON-MEDICATED

A milk replacer for dairy or beef calves.

#### GUARANTEED ANALYSIS

Crude Protein, min .....	22.0%
Crude Fat, min .....	24.0%
Crude Fiber, max .....	0.15%
Calcium (Ca), min.....	0.75%
Calcium (Ca), max.....	1.25%
Phosphorus (P), min .....	0.7%
Vitamin A, min .....	30,000 IU/lb
Vitamin D3, min .....	10,000 IU/lb
Vitamin E, min.....	150 IU/lb

#### INGREDIENTS

Dried Whey, Dried Whey Protein Concentrate, Animal and Vegetable Fat (Preserved with BHA and BHT), Dried Whey Product, Dried Skimmed Milk, Lecithin, Brewers Dried Yeast, Dried *Saccharomyces cerevisiae* Fermentation Solubles, Dicalcium Phosphate, Calcium Carbonate, DL-Methionine, L-Lysine Monohydrochloride, Vitamin A Supplement, Vitamin D3 Supplement, Vitamin E Supplement, Ascorbic Acid, Vitamin B12 Supplement, Folic Acid, Choline Chloride, Riboflavin Supplement, Niacin Supplement, Calcium Pantothenate, Thiamine Mononitrate, Pyridoxine Hydrochloride, Ferrous Sulfate, Copper Sulfate, Cobalt Sulfate, Zinc Sulfate, Manganese Sulfate, Magnesium Oxide, Ethylenediamine Dihydriodide, Mono and Diglycerides of Edible Fats or Oils, Sodium Silico Aluminate, Selenium Yeast, Reed-Sedge Peat, Artificial Flavor.

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\*CAUTION: Federal law restricts medicated feed containing this veterinary feed directive (VFD) drug to use by, or on the order of, a licensed veterinarian.

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**2 Days Old Until Weaning** - Feed MILK FORMULA 1 WINTERIZER until weaning. For small breed calves feed 1½ to 2 quarts of reliquefied Milk Formula 1 twice-a-day. For large breed calves feed 2 to 2½ quarts of reliquefied MILK FORMULA 1 WINTERIZER twice-a-day. Continue to feed MILK FORMULA 1 WINTERIZER as long as you would normally feed whole milk.

**Cold Weather Feeding Instructions (Daytime high temperatures <40°F) - Twice-A-Day Feeding:** Sprinkle 12 ounces\* of MILK FORMULA 1 WINTERIZER onto the surface of two quarts of warm water (110°F) and mix thoroughly with a whisk or preferably switch to **Three-Times-A-Day Feeding** where you sprinkle 10 ounces\* of MILK FORMULA 1 WINTERIZER onto the surface of two quarts of warm water (110°F) and mix thoroughly with a whisk. **During extreme cold weather, when high temperatures do not exceed 20°F**, in addition to the cold weather instructions listed above, consider the addition of 1 ounce of Milk Energizer 7/60 energy pack to the milk replacer per feeding for each calf.

#### **GENERAL MANAGEMENT CONSIDERATIONS**

1. The suggested feeding program is intended solely as a guide. The variables of management, environment, and breed may dictate changes in the animals' requirements.
2. Provide clean, fresh water at all times.
3. Start feeding Kent® Calf Starter when calves are 4 days old. Start with a small amount (0.5 lb) and gradually increase as the calf's consumption increases. Provide a fresh amount each day to stimulate consumption.
4. Wean calves when consuming at least 2 lb of calf starter per day for 3 consecutive days.

# PRECISION® FORMULA PREMIUM

## Non-Medicated

### Product Description

Precision® Formula Premium is a premium quality milk replacer containing a combination of proteins and additives that support best-cost growth in calves, including calves that may be raised in stressful conditions.

### Features and Benefits

**20% protein** from multiple protein sources to get calves off to a healthy start and on dry feeds on schedule

**20% high-quality fat** that is protein encapsulated for good suspension

**Processed by partial agglomeration** process for economical suspension when mixed with water

**Contains Bovine Plasma, BoVantage® technology and MOS** for healthy performance and immune system support

**Fortified with high levels of vitamins A, D and E** (300 IU/lb)

**Contains National Research Council recommended levels of the B vitamins**

**Contains required minerals and trace minerals** from highly available sources, including selenium from selenium yeast

**Available in a 50-lb bag**

### Medication Options

- **Non-medicated** #5430
- **NT** (Neomycin/oxytetracycline) #5431  
Neomycin (from Neomycin Sulfate) ..... 1600 g/ton  
Oxytetracycline ..... 1600 g/ton  
For aid in the treatment of bacterial enteritis (scours) and bacterial pneumonia
- **ClariFly®** in combination with NT (#5432) during fly season  
Diflubenzuron..... 13.6 g/ton  
For preventing development of house, stable, face and horn flies in the manure of treated calves.
- **BOV** (Bovatec®) #5428  
Lasalocid..... 72.6 g/ton  
For control of coccidiosis caused by *Eimeria bovis* and *Eimeria zuernii*.

### Mixing Directions

Mix 10 ounces\* (0.63 lb) of milk replacer plus 2 quarts of warm (110°F) water. Add powder to water and mix vigorously. Use of cooler water requires greater mixing action and increases the possibility of the powder settling out. Feed immediately.

\* The measuring cup enclosed in the bag holds approximately 10 ounces when full. Check cup volume periodically.



## PRECISION® FORMULA PREMIUM

### NON-MEDICATED

A milk replacer for dairy or beef calves.

### GUARANTEED ANALYSIS

Crude Protein, min.....	20.0%
Crude Fat, min .....	20.0%
Crude Fiber, max .....	0.15%
Ash, max .....	8.50%
Calcium, min .....	0.75%
Calcium, max.....	1.25%
Phosphorus, min.....	0.7%
Selenium, min.....	0.3 ppm
Vitamin A, min .....	35,000 IU/lb
Vitamin D3, min .....	10,000 IU/lb
Vitamin E, min.....	300 IU/lb
Vitamin B12, min .....	0.005 mg/lb
Choline, min .....	25 mg/lb
Niacin, min .....	10 mg/lb
d-Pantothenic Acid, min .....	5 mg/lb
Riboflavin, min.....	2 mg/lb
Thiamine, min.....	1.25 mg/lb

### INGREDIENTS

Dried Whey, Dried Whey Product, Dried Whey Protein Concentrate, Modified Wheat Protein, Animal and Vegetable Fat (Preserved with BHA and BHT), Animal Plasma, Dried Skimmed Milk, Lecithin, Brewers Dried Yeast, Dried *Saccharomyces cerevisiae* Fermentation Solubles, Dicalcium Phosphate, Calcium Carbonate, DL-Methionine, L-Lysine, Vitamin A Supplement, Vitamin D3 Supplement, Vitamin E Supplement, Ascorbic Acid, Vitamin B12 Supplement, Folic Acid, Choline Chloride, Riboflavin Supplement, Niacin Supplement, Calcium Panthothenate, Thiamine Mononitrate, Pyridoxine Hydrochloride, Ferrous Sulfate, Copper Sulfate, Cobalt Sulfate, Zinc Sulfate, Manganese Sulfate, Magnesium Oxide, Ethylenediamine Dihydriodide, Mono and Diglycerides of Vegetable Oil, Sodium Silico Aluminate, Selenium Yeast, Reed-Sedge Peat, Artificial Flavor.

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General Offices in Muscatine, IA 52761

## **Feeding Directions**

### **Birth**

Feed 3-4 quarts of colostrum immediately after birth (need to provide 100 g of IgG). Feed 2-4 additional quarts within 12 hours of birth and feed 2-4 more quarts at 24 hours of age. Always use the highest quality colostrum available. If necessary, use an esophageal feeder. Don't let the calf determine intake.

### **2 Days Old Until Weaning**

Feed PRECISION FORMULA PREMIUM until weaning. For small breed calves feed 1½ to 2 quarts of reliquefied PRECISION FORMULA PREMIUM twice-a-day. For large breed calves feed 2 to 2½ quarts of reliquefied PRECISION FORMULA PREMIUM twice-a-day. Continue to feed PRECISION FORMULA PREMIUM as long as you would normally feed whole milk.

### **Cold Weather Feeding Instructions:**

Add 1-2 oz per feeding of Milk Energizer to increase the total energy level of the milk replacer during periods of cold stress.

## **General Management Considerations**

1. Provide clean, fresh water at all times.
2. Start feeding Kent® Calf Starter when calves are 4 days old. Start with a small amount (0.5 lb) and gradually increase as the calf's consumption increases. Provide a fresh amount each day to stimulate consumption.
3. Wean calves when consuming at least 2 lb of calf starter per day for 3 consecutive days.

# PRECISION® FORMULA SELECT

## Non-Medicated

### PRODUCT DESCRIPTION

Precision® Formula Select is formulated with a balanced combination of milk proteins and soy protein concentrate for economical performance.

### FEATURES AND BENEFITS

- 21% protein** from milk proteins and soy protein concentrate
- 20% high-quality fat** that is protein encapsulated for good suspension
- Processed by the KwikMix™** process for easy mixing
- Contains APEX™**, a blend of specific plant extracts from garlic, anise, cinnamon, rosemary and thyme that research indicates encourages feed intake and enhances calf performance with protein sources in SELECT
- Fortified with high levels of vitamins A, D and E**
- Contains National Research Council recommended levels of the B vitamins**
- Contains required minerals and trace minerals** from highly available sources, including selenium from selenium yeast
- Contains BoVantage® technology** for immune system support
- Available in a 50-lb bag**

### MEDICATION OPTIONS

- **Non-medicated** #5433
- **BOV** (Bovatec®) #5434  
Lasalocid .....72.6 g/ton  
For control of coccidiosis caused by *Eimeria bovis* and *Eimeria zuernii*.
- **ClariFly®** in combination with BOV (#5435) during fly season  
Diflubenzuron .....13.6 g/ton  
For preventing development of house, stable, face and horn flies in the manure of treated calves.

### MIXING DIRECTIONS

Mix 10 ounces\* (0.63 lb) of milk replacer plus 2 quarts of warm (110°F) water. Add powder to water and mix vigorously. Use of cooler water requires greater mixing action and increases the possibility of the powder settling out. Feed immediately.

\* The measuring cup enclosed in the bag holds approximately 10 ounces when full. Check cup volume periodically.

### FEEDING DIRECTIONS

**Birth** - Feed 3-4 quarts of colostrum immediately after birth (need to provide 100 g of IgG). Feed 2-4 additional quarts within 12 hours of birth and feed 2-4 more quarts at 24 hours of age. Always use the highest quality colostrum available. If necessary, use an esophageal feeder. Don't let the calf determine intake.

**2 Days Old Until Weaning** - Feed PRECISION FORMULA SELECT until weaning. For small breed calves feed 1½ to 2 quarts of reliquefied PRECISION FORMULA SELECT twice-a-day. For large breed calves feed 2 to 2½ quarts of reliquefied PRECISION FORMULA SELECT twice-a-day. Continue to feed PRECISION FORMULA SELECT as long as you would normally feed whole milk.



# PRECISION® FORMULA SELECT

## NON-MEDICATED

A milk replacer for dairy or beef calves.

### GUARANTEED ANALYSIS

Crude Protein, min .....	21.0%
Crude Fat, min .....	20.0%
Crude Fiber, max .....	0.5%
Calcium, min .....	0.75%
Calcium, max .....	1.25%
Phosphorus, min .....	0.7%
Vitamin A, min .....	30,000 IU/lb
Vitamin D3, min .....	10,000 IU/lb
Vitamin E, min .....	150 IU/lb

### INGREDIENTS

Dried Whey, Dried Whey Product, Dried Whey Protein Concentrate, Soy Protein Concentrate, Animal and Vegetable Fat (Preserved with BHA and BHT), Dried Skimmed Milk, Lecithin, Dicalcium Phosphate, Calcium Carbonate, DL-Methionine, L-Lysine Monohydrochloride, Vitamin A Supplement, Vitamin D3 Supplement, Vitamin E Supplement, Ascorbic Acid, Vitamin B12 Supplement, Folic Acid, Choline Chloride, Riboflavin Supplement, Niacin Supplement, Calcium Panthothenate, Thiamine Mononitrate, Pyridoxine Hydrochloride, Ferrous Sulfate, Copper Sulfate, Cobalt Sulfate, Zinc Sulfate, Manganese Sulfate, Magnesium Oxide, Ethylenediamine Dihydriodide, Mono and Diglycerides of Edible Fats or Oils, Sodium Silico Aluminate, Selenium Yeast, Garlic Extract, Aniseed Extract, Cassia Extract, Thyme Extract, Rosemary Extract, Reed-Sedge Peat, Artificial Flavor.

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**Cold Weather Feeding Instructions** - Add 1-2 oz per feeding of Milk Energizer to increase the total energy level of the milk replacer during periods of cold stress.

**GENERAL MANAGEMENT CONSIDERATIONS**

1. Provide clean, fresh water at all times.
2. Start feeding Kent® Calf Starter when calves are 4 days old. Start with a small amount (0.5 lb) and gradually increase as the calf's consumption increases. Provide a fresh amount each day to stimulate consumption.
3. Wean calves when consuming at least 2 lb of calf starter per day for 3 consecutive days.

# VELOCITY™ FORMULA

## Non-Medicated

### Product Description

Velocity™ Formula is a high-protein, highly fortified milk replacer designed for advanced feeding and management of dairy replacement heifers. Years of research by Universities and Kent Nutrition Group has shown heifers on an intensive feeding program may: obtain 60% more growth in the first 6 weeks of life; calve earlier (22-24 months); and have over a \$200 economic advantage during their first lactation.

### Features and Benefits

**24% protein** from a combination of milk proteins and plasma

**18% high-quality fat** that is protein encapsulated for good suspension

**The KwikMix™ process** makes it easy mixing

**Contains Bovine Plasma, BoVantage® technology and MOS** for healthy performance and immune system support

**Fortified with high levels of vitamins A, D and E**

**Contains National Research Council recommended levels of the B vitamins**

**Contains required minerals and trace minerals**

from highly available sources, including selenium from selenium yeast

**Available in a 50-lb bag**

### Medication Options

- **Non-medicated** #5440
- **NT** (Neomycin/oxytetracycline) #5441  
Neomycin (from Neomycin Sulfate) ..... 1600 g/ton  
Oxytetracycline ..... 1600 g/ton  
For aid in the treatment of bacterial enteritis (scours) and bacterial pneumonia
- **ClariFly®** combination with NT (#5442) during fly season  
Diflubenzuron..... 13.6 g/ton  
For preventing development of house, stable, face and horn flies in the manure of treated calves.

### Velocity Formula Intensified Calf Program

The Velocity Formula intensified dairy calf feeding program is designed to allow biologically normal growth of dairy calves. Due to the specialized nature of this program, special attention to calf feeding and management is a must. For best results, Velocity Formula must be fed with a highly fortified 21-23% protein calf starter.

### Mixing Directions

Mix 10 ounces\* (0.63 lb) of milk replacer plus 2 quarts of warm (110°F) water. Add powder to water and mix vigorously. Use of cooler water requires greater mixing action and increases the possibility of the powder settling out. Feed immediately.

*\* The measuring cup enclosed in the bag holds approximately 10 ounces of dry milk replacer when full. Check cup volume periodically.*

### Feeding Directions

Feed 3-4 quarts of first-milk colostrum immediately after birth (need to provide 100 g of IgG). Feed 2-4 additional quarts within 12 hours of birth and feed 2-4 more quarts at 24 hours of age. Always use the highest quality colostrum available. If necessary, use an esophageal feeder. Do not let the calf determine intake. Begin milk replacer feeding on the second day of life.



## VELOCITY™ FORMULA

### NON-MEDICATED

A milk replacer for dairy or beef calves.

### GUARANTEED ANALYSIS

Crude Protein, not less than .....	24.00%
Crude Fat, not less than .....	18.00%
Crude Fiber, not more than .....	0.15%
Calcium, not less than.....	0.75%
Calcium, not more than .....	1.25%
Phosphorus, not less than .....	0.60%
Vitamin A, not less than .....	30,000 IU/lb
Vitamin D3, not less than.....	10,000 IU/lb
Vitamin E, not less than.....	150 IU/lb

### INGREDIENTS

Dried Whey, Dried Whey Protein Concentrate, Dried Whey Product, Animal and Vegetable Fat (Preserved with BHA and BHT), Animal Plasma, Dried Skimmed Milk, Lecithin, Brewers Dried Yeast, Dried *Saccharomyces cerevisiae* Fermentation Solubles, Dicalcium Phosphate, Calcium Carbonate, Vitamin A Supplement, Vitamin D3 Supplement, Vitamin E Supplement, Ascorbic Acid, Magnesium Oxide, Zinc Sulfate, Ferrous Sulfate, Niacin Supplement, Manganese Sulfate, Calcium Pantothenate, Vitamin B12 Supplement, Thiamine Mononitrate, Riboflavin Supplement, Copper Sulfate, Pyridoxine Hydrochloride, Ethylenediamine Dihydriodide, Folic Acid, Choline Chloride, Cobalt Sulfate, Selenium Yeast, Sodium Silico Aluminate, Mono and Diglycerides of Edible Fats or Oils, Reed-Sedge Peat, Artificial Flavor.

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**FEEDING:**

**WATER SHOULD ALWAYS BE AVAILABLE!** If water is fed in same bucket as milk replacer, provide water within 5-10 minutes of feeding milk replacer. Extra care must be taken to ensure bottle-fed calves consume water. Feed milk replacer according to the following guidelines. Reduce feeding rate of milk replacer by 25-50% (or eliminate 1 feeding per day) 7 days before desired weaning to further increase starter intake.

<u>AGE OF CALF (days)</u>	<u>QUARTS PER FEEDING, TWICE PER DAY</u>
1	Colostrum
2-10	2
11-35	3
36-42	2

**General Management Considerations**

- 1. FRESH, CLEAN WATER MUST BE PROVIDED AT ALL TIMES WHEN FEEDING THIS PRODUCT.**
2. Start feeding Kent® Calf Starter when calves are 4 days old. Start with a small amount (0.5 lb) and gradually increase as the calf's consumption increases. Provide a fresh amount each day to stimulate consumption.
3. Wean calves when consuming at least 2 lb of calf starter per day for 3 consecutive days.
4. Velocity Formula is designed as part of a complete calf and heifer management program. This program may need to be adjusted for breed, health, or environmental factors. See your feed supplier for details.

# VELOCITY<sup>2</sup> 22 PELLET DQ45

## PRODUCT DESCRIPTION

A coarse, complete calf starter formulated for superior palatability and to promote rumen development during the first two months of life.

## FEATURES AND BENEFITS

**Fortified with nutrients** to provide for proper development of the rumen and superior calf growth.

**Balanced for lysine and methionine** to provide the calf's underdeveloped digestive system the amino acids it needs.

**Decoquinate** has been added to aid in the prevention of coccidiosis.

**Pelleted** for use in bulk feeding systems.

## FEEDING DIRECTIONS

- Feed 3-4 quarts of colostrum immediately after birth (need to provide 100 g of IgG). Feed 2-4 additional quarts within 12 hours of birth and feed 2-4 more quarts at 24 hours of age. If necessary, use an esophageal feeder.
- Mix and feed Kent Velocity MF milk replacer according to directions on the tag. Discontinue the feeding of Kent Velocity MF after 6 weeks or when calves are consuming 2 pounds of starter per day for 3 consecutive days, whichever comes last. Feed Velocity 22 Pellet until 12 weeks of age with no hay fed separately.
- Start feeding Kent Velocity 22 Pellet DQ45 Medicated when calves are 3 days old. Place a fresh supply before calves each day. Calves should consume at least 1.0 lb per 100 lb of body weight to provide 22.7 mg of Decoquinate per 100 lb of body weight. Feed at least 28 days during periods of coccidiosis or when it is likely to be a hazard. Coccidiostats are not indicated for use in adult animals due to continuous previous exposure.
- From 12 to 23 weeks of age, feed free choice 18% Grower made with Kent Velocity Mixer 42 or Velocity Grower 18, along with 2-3 pounds good quality hay.

**Warning:** Do not feed to cows producing milk for food.

**Caution:** Do not use in feeds containing bentonite.



## VELOCITY<sup>2</sup> 22 PELLET DQ45 MEDICATED

For starting dairy calves.

For the prevention of coccidiosis in ruminating and non-ruminating calves, including veal calves, and cattle caused by *Eimeria bovis* and *Eimeria zuernii*.

### ACTIVE DRUG INGREDIENT

Decoquinate ..... 0.00496%(45g/ton)

### GUARANTEED ANALYSIS

Crude Protein, min .....	22.0%
Crude Fat, min .....	2.5%
Crude Fiber, max .....	7.0%
Acid Detergent Fiber (ADF), min .....	9.0%
Calcium (Ca), min .....	1.0%
Calcium (Ca), max .....	1.5%
Phosphorus (P), min .....	0.65%
Salt (NaCl), min .....	0.2%
Salt (NaCl), max .....	0.7%
Potassium (K), min .....	1.0%
Selenium (Se), min .....	0.3 ppm
Vitamin A, min .....	10,000 IU/lb
Vitamin D3, min .....	1,700 IU/lb
Vitamin E, min .....	90 IU/lb

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### INGREDIENTS

Grain Products, Processed Grain By-Products, Plant Protein Products, Cane Molasses, Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Lignin Sulfonate, Salt, L-Lysine, DL-Methionine, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Menadione Dimethylpyrimidinol Bisulfite (source of Vitamin K Activity), Riboflavin Supplement, Niacin Supplement, Thiamin Mononitrate, Calcium Pantothenate, Vitamin B12 Supplement, Biotin, Folic Acid, Choline Chloride, Calcium Iodate, Manganese Sulfate, Zinc Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Potassium Chloride, Selenium Yeast, Artificial Flavors Added, Ethoxyquin and BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

# VELOCITY<sup>2</sup> MIXER 42

## PRODUCT DESCRIPTION

A product with multiple protein sources supplying an optimal balance of lysine and methionine to provide the nutrients calves need up to 400 lb body weight.

## FEATURES AND BENEFITS

**Balanced for lysine and methionine** to provide the calf's underdeveloped digestive system the amino acids it needs.

**Decoquinat**e can be added to aid in the prevention of coccidiosis.

**Pelleted** to work with bulk feeding systems.

**Optimum nutrient concentrations** provide for proper growth and development.

**High-quality protein sources** are easily digested to build the frame and body size. Contains corn gluten meal.

**Vitamin A** helps protect calves from scours, pneumonia, and other respiratory problems by keeping the mucous membranes and other tissues healthy.

**Vitamin D3** aids in calcium and phosphorus metabolism for building a strong bone framework.

**Vitamin E** for normal structure and function of skeletal muscles, heart muscle, and liver.

**Organic selenium** to help improve calf immunity, prevent white muscle disease, has antioxidant properties and helps promote thyroid metabolism.

## MIXING AND FEEDING DIRECTIONS

Dairy Calves:	Calf Starter 22	Calf Grower 18
Velocity <sup>2</sup> Mixer 42, lb	850	600
Rolled corn, lb	650	900
Whole oats, lb	300	300
Molasses supplement, lb	200	200
Total, lb	2000	2000

To prevent coccidiosis, add Velocity<sup>2</sup> Mixer 42, Deccox<sup>®</sup> 10X or DeCocci Krumbles<sup>™</sup>. For best results use Deccox 10X with liquid Kent Molasses supplements or use DeCocci Krumbles when using a dry Kent molasses supplement in grind and mix rations.



## VELOCITY<sup>2</sup> MIXER 42

A supplement for growing dairy heifers.

### GUARANTEED ANALYSIS

Crude Protein, min	42.0%
Crude Fat, min	1.0%
Crude Fiber, max	6.0%
Acid Detergent Fiber (ADF), min	9.0%
Calcium (Ca), min	1.3%
Calcium (Ca), max	1.8%
Phosphorus (P), min	0.8%
Salt (NaCl), min	0.6%
Salt (NaCl), max	1.1%
Selenium (Se), min	0.7 ppm
Vitamin A, min	24,000 IU/lb
Vitamin D3, min	4,000 IU/lb
Vitamin E, min	220 IU/lb

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### INGREDIENTS

Processed Grain By-Products, Soybean Meal, Cane Molasses, Animal Fat, Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, L-Lysine, DL-Methionine, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Menadione Dimethylpyrimidinol Bisulfite (source of Vitamin K Activity), Riboflavin Supplement, Niacin Supplement, Thiamin Mononitrate, Calcium Pantothenate, Vitamin B12 Supplement, Choline Chloride, Biotin, Folic Acid, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Zinc Oxide, Zinc Sulfate, Potassium Chloride, Selenium Yeast, Ethoxyquin and BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

# SWEETFLAKES™

## 18 DQ45

### PRODUCT DESCRIPTION

Formulated for superior palatability to promote intake and rumen development. A molasses-coated blend of steam flaked corn and soybeans along with whole oats and a specifically formulated protein pellet.

### FEATURES AND BENEFITS

**Superior palatability** to encourage early intake; the key to early rumen development.

**Steam flaked grains** improves carbohydrate availability and energy release for improved performance.

**Oats** improve diet texture and provide a combination of digestible fiber and energy.

**High vitamin levels** help improve protein metabolism, feed utilization, immunity, and overall health and vigor.

**BoVantage™ technology** to help promote a healthy rumen, combat stress, and provide immune system support.

**Decoquinat**e to aid in the prevention of coccidiosis.

**Provides unique energy and carbohydrate sources** to enhance muscle development, growth, and weight gain.

**ClariFly® Larvicide** option is available to aid in fly control around livestock.

### FEEDING DIRECTIONS

Feed 3 - 4 quarts of colostrum immediately after birth (need to provide 100 g of IgG). Feed 2 - 4 additional quarts within 12 hours of birth and feed 2 - 4 more quarts at 24 hours of age. If necessary, use an esophageal feeder.

Feed milk replacers until 6 weeks of age or when calves have consumed 2 lb of starter/day for 3 consecutive days, whichever comes last (mix and feed according to the directions on milk replacer tags).

Start feeding product when calves are 3 days old. Place a fresh supply before calves each day. Calves should consume at 1 lb/100 lb of body weight to provide 22.7 mg of decoquinat/100 lb of body weight. Feed for at least 28 days during periods of coccidiosis exposure or when experience indicates it is likely to be a hazard.

**WARNING:** Do not feed to cows producing milk for food.



## SWEETFLAKES™ 18 DQ45

### MEDICATED

A complete feed for starting dairy calves.  
For the prevention of coccidiosis in cattle (including ruminating and non-ruminating calves and veal calves) caused by *Eimeria bovis* and *Eimeria zuernii*.

### ACTIVE DRUG INGREDIENT

Decoquinat..... 0.00496% (45g/ton)

### GUARANTEED ANALYSIS

Crude Protein, min. ....	18.0%
Crude Fat, min. ....	5.5
Crude Fiber, max. ....	7.0%
Acid Detergent Fiber (ADF), max. ....	9.0%
Calcium (Ca), min. ....	0.5%
Calcium (Ca), max. ....	1.0%
Phosphorus (P), min. ....	0.45%
Salt (NaCl), min. ....	0.5%
Salt (NaCl), max. ....	1.0%
Potassium (K), min. ....	1.0%
Selenium (Se), min. ....	0.3 ppm
Vitamin A, min. ....	14,000 IU/lb
Vitamin D3, min. ....	3,100 IU/lb
Vitamin E, min. ....	28 IU/lb

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### INGREDIENTS

Heat Processed Corn, Heat Processed Soybeans, Oats, Soybean Meal, Linseed Meal, Processed Grain By-Products, Cane Molasses, Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Animal Fat, Vegetable Oil, Dried Cheese Product, Dried Whey, Condensed Corn Fermentation Solubles, Water, Potassium Chloride, Reed-Sedge Peat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Zinc Sulfate, Sodium Selenite, Natural and Artificial Flavors, Propionic Acid, Sorbic Acid, Acetic Acid, Benzoic Acid.

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*ClariFly® is a registered trademark of Central Life Sciences®*

# SWEETFLAKES™ 20 DQ45

## PRODUCT DESCRIPTION

Formulated for superior palatability to promote intake and rumen development. A molasses-coated blend of steam flaked corn and soybeans along with whole oats and a specifically formulated protein pellet.

## FEATURES AND BENEFITS

**Superior palatability** to encourage early intake; the key to early rumen development.

**Steam flaked grains** improves carbohydrate availability and energy release for improved performance.

**Oats** improve diet texture and provide a combination of digestible fiber and energy.

**High vitamin levels** help improve protein metabolism, feed utilization, immunity, and overall health and vigor.

**BoVantage™ technology** to help promote a healthy rumen, combat stress, and provide immune system support.

**Decoquinat**e to aid in the prevention of coccidiosis.

**Provides unique energy and carbohydrate sources** to enhance muscle development, growth, and weight gain.

**ClariFly® Larvicide** option is available to aid in fly control around livestock.

## FEEDING DIRECTIONS

Feed 3 - 4 quarts of colostrum immediately after birth (need to provide 100 g of IgG). Feed 2 - 4 additional quarts within 12 hours of birth and feed 2 - 4 more quarts at 24 hours of age. If necessary, use an esophageal feeder.

Feed milk replacers until 6 weeks of age or when calves have consumed 2 lb of starter per day for 3 consecutive days, whichever comes last (mix and feed according to the directions on milk replacer tags).

Start feeding product when calves are 3 days old. Place a fresh supply before calves each day. Calves should consume at 1 lb/100 lb of body weight to provide 22.7 mg of decoquinat/100 lb of body weight. Feed for at least 28 days during periods of coccidiosis exposure or when experience indicates it is likely to be a hazard.

**Warning:** Do not feed to cows producing milk for food.



## SWEETFLAKES™ 20 DQ45 MEDICATED

A complete feed for starting dairy calves.  
For the prevention of coccidiosis in cattle (including ruminating and non-ruminating calves and veal calves) caused by *Eimeria bovis* and *Eimeria zuernii*.

### ACTIVE DRUG INGREDIENT

Decoquinat ..... 0.00496% (45g/ton)

### GUARANTEED ANALYSIS

Crude Protein, min .....	20.0%
Crude Fat, min .....	5.5%
Crude Fiber, max .....	7.0%
Acid Detergent Fiber (ADF), max .....	9.0%
Calcium (Ca), min .....	0.8%
Calcium (Ca), max .....	1.3%
Phosphorus (P), min .....	0.45%
Salt (NaCl), min .....	0.5%
Salt (NaCl), max .....	1.0%
Potassium (K), min .....	1.1%
Selenium (Se), min .....	0.35 ppm
Vitamin A, min .....	18,250 IU/lb
Vitamin D3, min .....	4.050 IU/lb
Vitamin E, min .....	36 IU/lb

2

### INGREDIENTS

Heat Processed Corn, Heat Processed Soybeans, Oats, Soybean Meal, Linseed Meal, Processed Grain By-Products, Cane Molasses, Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Animal Fat, Vegetable Oil, Dried Cheese Product, Dried Whey, Condensed Corn Fermentation Solubles, Water, Potassium Chloride, Reed-Sedge Peat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Zinc Sulfate, Sodium Selenite, Natural and Artificial Flavors, Propionic Acid, Sorbic Acid, Acetic Acid, Benzoic Acid.

Manufactured by  
**KENT NUTRITION GROUP, INC.**  
Headquarters in Muscatine, IA 52761

# SWEETFLAKES™ 22

## DQ45

### PRODUCT DESCRIPTION

Formulated for superior palatability to promote intake and rumen development. A molasses-coated blend of steam flaked corn and soybeans along with whole oats and a specifically formulated protein pellet.

### FEATURES AND BENEFITS

**Superior palatability** to encourage early intake; the key to early rumen development.

**Steam flaked grains** improves carbohydrate availability and energy release for improved performance.

**Oats** improve diet texture and provide a combination of digestible fiber and energy.

**High vitamin levels** help improve protein metabolism, feed utilization, immunity, and overall health and vigor.

**BoVantage™ technology** to help promote a healthy rumen, combat stress, and provide immune system support.

**Decoquinate** to aid in the prevention of coccidiosis.

**Provides unique energy and carbohydrate sources** to enhance muscle development, growth, and weight gain.

### FEEDING DIRECTIONS

Feed 3 - 4 quarts of colostrum immediately after birth (need to provide 100 g of IgG). Feed 2 - 4 additional quarts within 12 hours of birth and feed 2 - 4 more quarts at 24 hours of age. If necessary, use an esophageal feeder.

Feed a milk replacer until 6 weeks of age or when calves have consumed 2 lb of starter/day for 3 consecutive days, whichever comes last (mix and feed according to the directions on milk replacer tags).

Start feeding product when calves are 3 days old. Place a fresh supply before calves each day. Calves should consume at 1 lb/100 lb of body weight to provide 22.7 mg of decoquinate/100 lb of body weight. Feed at least 28 days during periods of coccidiosis exposure or when experience indicates it is likely to be a hazard.

**Warning:** Do not feed to cows producing milk for food.



## SWEETFLAKES™ 22 DQ45

### MEDICATED

A complete feed for starting dairy calves.  
For the prevention of coccidiosis in cattle (including ruminating and non-ruminating calves and veal calves) caused by *Eimeria bovis* and *Eimeria zuernii*.

### ACTIVE DRUG INGREDIENT

Decoquinate ..... 0.00496% (45g/ton)

### GUARANTEED ANALYSIS

Crude Protein, min .....	22.0%
Crude Fat, min .....	5.5%
Crude Fiber, max .....	7.0%
Acid Detergent Fiber (ADF), max .....	9.0%
Calcium (Ca), min .....	1.0%
Calcium (Ca), max .....	1.5%
Phosphorus (P), min .....	0.5%
Salt (NaCl), min .....	0.8%
Salt (NaCl), max .....	1.3%
Potassium (K), min .....	1.2%
Selenium (Se), min .....	0.4 ppm
Vitamin A, min .....	22,500 IU/lb
Vitamin D3, min .....	5,000 IU/lb
Vitamin E, min .....	45 IU/lb

2

### INGREDIENTS

Heat Processed Corn, Heat Processed Soybeans, Oats, Soybean Meal, Linseed Meal, Processed Grain By-Products, Cane Molasses, Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Animal Fat, Vegetable Oil, Dried Cheese Product, Dried Whey, Condensed Corn Fermentation Solubles, Water, Potassium Chloride, Reed-Sedge Peat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Zinc Sulfate, Sodium Selenite, Natural and Artificial Flavors, Propionic Acid, Sorbic Acid, Acetic Acid, Benzoic Acid.

Manufactured by  
**KENT NUTRITION GROUP, INC.**  
Headquarters in Muscatine, IA 52761

# SWEETFLAKES™

## MIXER 38

### PRODUCT DESCRIPTION

A mixer product designed for further manufacturing of dairy calf feeds. Formulated for superior palatability to promote intake and rumen development. A molasses-coated blend of steam flaked corn and soybeans along with whole oats and a specifically formulated protein pellet.

### FEATURES AND BENEFITS

**Superior palatability** to encourage early intake; the key to early rumen development.

**Steam flaked grains** improves carbohydrate availability and energy release for improved performance.

**Oats** improve diet texture and provide a combination of digestible fiber and energy.

**High vitamin levels** help improve protein metabolism, feed utilization, immunity, and overall health and vigor.

**BoVantage™** to help promote a healthy rumen, combat stress, and provide immune system support.

**Provides unique energy and carbohydrate sources** to enhance muscle development, growth, and weight gain.

**ClariFly® Larvicide** option is available to aid in fly control around livestock.

### MIXING & FEEDING DIRECTIONS

For detailed mixing directions, consult your Kent Nutrition Group dairy nutritionist. Feed resulting mixture as sole grain ration.

**Warning:** Do not feed to cows producing milk for food.



## SWEETFLAKES™ MIXER 38

For further manufacturing of dairy calf feeds.

### GUARANTEED ANALYSIS

Crude Protein, min .....	38.0%
Crude Fat, min .....	0.6%
Crude Fiber, max .....	7.0%
Acid Detergent Fiber (ADF), max .....	11.0%
Calcium (Ca), min .....	2.8%
Calcium (Ca), max .....	3.8%
Phosphorus (P), min .....	1.0%
Salt (NaCl), min .....	2.1%
Salt (NaCl), max .....	2.6%
Selenium (Se), min .....	1.4 ppm
Vitamin A, min .....	64,500 IU/lb
Vitamin D3, min .....	14,250 IU/lb
Vitamin E, min .....	135 IU/lb

2

### INGREDIENTS

Plant Protein Products, Processed Grain By-Products, Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Dried Cheese Product, Dried Whey, Reed-Sedge Peat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Zinc Sulfate, Selenium Yeast.

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

*ClariFly® is a registered trademark of Central Life Sciences®*



# ACTIVE™ CALFGO 32

## PRODUCT DESCRIPTION

A 32% protein supplement with multiple protein sources supplying an optimal balance of lysine and methionine to provide the nutrients calves need up to 400 lb body weight. It is designed for grind-and-mix diets and is available with decoquinatate at 106 grams per ton.

## FEATURES AND BENEFITS

**Balanced for lysine and methionine** to provide the calf's underdeveloped digestive system the amino acids it needs.

**High vitamin and trace mineral fortification** to help heifers fight disease and develop a healthy reproductive tract.

**Decoquinatate** can be added to aid in the prevention of coccidiosis.

**Pelleted** to work with bulk feeding systems.

**Optimum nutrient concentrations** provide for proper growth and development.

**32% protein (all-natural protein)** because growing calves need high-quality protein sources which are easily digested in order to build the frame and body size required to realize full inherited potential. Active Calfgo contains high-quality protein sources such as corn gluten meal.

**Vitamin A** is known as the good-health vitamin. It helps protect calves from scours, pneumonia, and other respiratory problems by keeping the mucous membranes and other tissues healthy.

**Vitamin D3** is necessary for calcium and phosphorus metabolism in constructing a sound bone frame in a calf.

**Vitamin E** is necessary for normal structure and function of skeletal muscle, heart muscle, and liver.

**Organic selenium** to help improve calf immunization, prevent white muscle disease, has antioxidant properties and helps promote thyroid metabolism.

## MIXING AND FEEDING DIRECTIONS

### Dairy Calves:

	18% Calf Starter	16% Calf Grower
Active Calfgo, lb	850	685
Rolled corn, lb	650	815
Whole oats, lb	300	300
Molasses supplement, lb	200	200
Total, lb	2000	2000

To prevent coccidiosis, replace Active Calfgo with Active Calfgo DQ or add Deccox® 10X or DeCocci Krumbles™. For best results, use Deccox 10X with liquid Kent molasses supplements or use DeCocci Krumbles when using a dry Kent molasses supplement in grind and mix rations.



## GUARANTEED ANALYSIS

Crude Protein, min	32.0%
Crude Fat, min	2.5%
Crude Fiber, max	8.0%
Acid Detergent Fiber (ADF), max	11.0%
Calcium (Ca), min	1.3%
Calcium (Ca), max	1.8%
Phosphorus (P), min	0.8%
Salt (NaCl), min	0.6%
Salt (NaCl), max	1.1%
Selenium (Se), min	0.7 ppm
Vitamin A, min	24,000 IU/lb
Vitamin D3, min	4,000 IU/lb
Vitamin E, min	220 IU/lb

2

## INGREDIENTS

Processed Grain By-Products, Soybean Meal, Sunflower Meal, Cane Molasses, Animal Fat, Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, L-Lysine, DL-Methionine, Menadione Dimethylpyrimidinol Bisulfite (source of Vitamin K Activity), Riboflavin Supplement, Niacin Supplement, Thiamine Mononitrate, Calcium Pantothenate, Vitamin B12 Supplement, Choline Chloride, Biotin, Folic Acid, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Zinc Sulfate, Selenium Yeast, Ethoxyquin and BHT (preservatives).

Manufactured by  
**KENT NUTRITION GROUP, INC.**  
 Headquarters in Muscatine, IA 52761

Deccox is the registered trademark of Alpharma Animal Health



# ACTIVE™ DEVELOPER

## 34 400B

### MEDICATED

#### PRODUCT DESCRIPTION

A 34% protein, RUP-based supplement containing 400 grams of Bovatec® per ton. It is formulated for developing heifers from 400 lb through freshening.

#### FEATURES AND BENEFITS

**Multiple protein sources** allow heifers to reach their genetic potential by supplying a more optimum amino acid pattern.

**Bovatec** increases growth rate by 0.17 lb per day over non-medicated control ration.

**Optimum vitamin and mineral** concentrations provide for proper growth and development.

**Simple mixing with home-grown grains** offers an economical calf grower and developer ration.

**Added organic selenium** which allows better absorption of selenium, improved tissue stage and greater bioavailability.

**Medication** options are available. Consult your local plant for specifics.

#### MIXING AND FEEDING DIRECTIONS

**Hand Fed:** Feed to replacement heifers at a rate of 1.0 lb per head per day to provide 200 mg of Bovatec per head per day.

	<b>Grain Mix (6 months - 2 yr)</b>
Active Developer 34 400B, lb	500
Rolled Corn, lb	1400
Molasses Supplement, lb	<u>100</u>
Total, lb	2000

Feed the above grain mix at the rate of 4 lb per head per day to replacement dairy heifers. Four pounds of this mix provides 200 mg of Bovatec per day. Feed with free-choice roughage.

#### CAUTION

Feeding undiluted or mixing errors may result in an excess Bovatec concentration which could be fatal to cattle and sheep. Do not allow equine animals access to feed containing Bovatec as ingestion may be fatal. Safety of Bovatec for use in unapproved species has not been established.

#### WARNING

A withdrawal period has not been established for this product in pre-ruminating cattle. Do not use in calves to be processed for veal.



# ACTIVE™ DEVELOPER

## 34 400B

### MEDICATED

A supplement for dairy replacement heifers.  
For increased rate of weight gain in pasture cattle (slaughter, stocker, feeder cattle and dairy and beef replacement heifers).

#### ACTIVE DRUG INGREDIENT

Lasalocid ..... 400 g/ton

#### GUARANTEED ANALYSIS

Crude Protein, min ..... 34.0%  
Crude Fat, min ..... 1.0%  
Crude Fiber, max ..... 9.0%  
Acid Detergent Fiber (ADF), max ..... 11.5%  
Calcium (Ca), min ..... 3.0%  
Calcium (Ca), max ..... 4.0%  
Phosphorus (P), min ..... 1.0%  
Salt (NaCl), min ..... 1.6%  
Salt (NaCl), max ..... 2.1%  
Selenium (Se), min ..... 4.6 ppm  
Vitamin A, min ..... 60,000 IU/lb  
Vitamin D3, min ..... 7,000 IU/lb  
Vitamin E, min ..... 350 IU/lb

3

#### INGREDIENTS

Processed Grain By-Products, Soybean Meal, Sunflower Meal, Cane Molasses, Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Zinc Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Zinc Oxide, Selenium Yeast, Ethoxyquin and BHT (preservatives).

Manufactured by  
**KENT NUTRITION GROUP, INC.**  
Headquarters in Muscatine, IA 52761

*Bovatec is a registered trademark of ALPHARMA Animal Health Division.*

# ACTIVE™ HEIFER MINERAL

## PRODUCT DESCRIPTION

A mineral formulated to supply the vitamin and mineral requirements of dairy replacement heifers fed for optimum rates of gain in confinement or on pasture.

## FEATURES AND BENEFITS

**A 2:1 mineral** with premium sources of phosphorus, mono-calcium phosphate, and dicalcium phosphate for superior bioavailability.

**Elevated concentrations of magnesium, selenium, zinc, copper, and vitamin E** important for strong bone formation in accelerated growth programs.

**High vitamin fortification** critical for improving overall health. Especially important at onset of estrus and throughout the reproductive period.

**Available with 1600 gram/ton Bovatec (5072), or 1600 gram/ton Rumensin (5073)** for increased weight gains.

## FEEDING DIRECTIONS

For optimum results, force feed 4 ounces per head per day to dairy replacement heifers weighing between 500 and 1300 lb. Feed forages and grain mix as specified in a balanced computer formulated ration. When feeding free-choice, the amount consumed will vary according to the quality and type of feedstuffs consumed.

Contact a KNG representative for help balancing rations. Call the local KNG plant for product availability and floor stocking options.



## ACTIVE™ HEIFER MINERAL

For replacement dairy heifers fed in confinement or on pasture.

### GUARANTEED ANALYSIS

Calcium (Ca), min .....	14.0%
Calcium (Ca), max .....	16.8%
Phosphorus (P), min .....	6.5%
Salt (NaCl), min .....	21.0%
Salt (NaCl), max .....	25.2%
Magnesium (Mg), min .....	2.0%
Potassium (K), min .....	2.0%
Copper (Cu), min .....	900 ppm
Manganese (Mn), min .....	1,700 ppm
Selenium (Se), min .....	20 ppm
Zinc (Zn), min .....	4,700 ppm
Vitamin A, min .....	200,000 IU/lb
Vitamin D3, min .....	50,000 IU/lb
Vitamin E, min .....	1850 IU/lb

4

### INGREDIENTS

Monocalcium Phosphate, Dicalcium Phosphate, Salt, Calcium Carbonate, Cane Molasses, Processed Grain By-Products, Animal Fat, Calcium Stearate, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Potassium Sulfate, Magnesium Sulfate, Calcium Iodate, Magnesium Oxide, Potassium Chloride, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Zinc Sulfate, Zinc Oxide, Sodium Selenite, Ethoxyquin and BHT (preservatives).

*Bovatec is a registered trademark of Alpharma Animal Health  
Rumensin is a registered trademark of Elanco Animal Health*

# ACTIVE™ HEIFER MINERAL 1600B

## PRODUCT DESCRIPTION

A mineral formulated to supply the vitamin and mineral requirements of dairy replacement heifers fed for optimum rates of gain in confinement or on pasture.

## FEATURES AND BENEFITS

**A 2:1 mineral** with premium sources of phosphorus, monocalcium phosphate, and dicalcium phosphate for superior bioavailability.

**Elevated concentrations of magnesium, selenium, zinc, copper, and vitamin E** important for strong bone formation in accelerated growth programs.

**High vitamin fortification** critical for improving overall health. Especially important at onset of estrus and throughout the reproductive period.

**1600 gram/ton Bovatec (5072)** for increased weight gains. Also available with Rumensin (5073)

## FEEDING DIRECTIONS

Mix 4 ounces of **Active Heifer Mineral 1600B Medicated** in at least 1 lb of grain mix to supply 200 mg of lasalocid per head per day to dairy replacement heifers weighing 500 to 1300 lb. Feed forages and grain mix as specified in a Kent Nutrition Group computer formulated ration.

**Caution:** The safety of lasalocid for use in unapproved species has not been established. **Do not allow horses or other equines access to feeds containing lasalocid as ingestion may be fatal.** Feeding undiluted or mixing errors may result in an excess Lasalocid concentration that **could be fatal to cattle and sheep.**

**Warning:** A withdrawal period has not been established for this product in pre-ruminating cattle. Do not use in calves to be processed for veal.



## ACTIVE™ HEIFER MINERAL 1600B MEDICATED

For replacement dairy heifers fed in confinement or on pasture.  
For increased rate of weight gain in dairy replacement heifers.

### ACTIVE DRUG INGREDIENT

Lasalocid.....1600 gm/ton

### GUARANTEED ANALYSIS

Calcium (Ca), min .....	14.0%
Calcium (Ca), max .....	16.8%
Phosphorus (P), min .....	6.5%
Salt (NaCl), min .....	21.0%
Salt (NaCl), max .....	25.2%
Magnesium (Mg), min .....	2.0%
Potassium (K), min .....	2.0%
Copper (Cu), min .....	900 ppm
Manganese (Mn), min .....	1,700 ppm
Selenium (Se), min .....	20 ppm
Zinc (Zn), min .....	4,700 ppm
Vitamin A, min .....	200,000 IU/lb
Vitamin D3, min .....	50,000 IU/lb
Vitamin E, min .....	1850 IU/lb

4

### INGREDIENTS

Monocalcium Phosphate, Dicalcium Phosphate, Salt, Calcium Carbonate, Cane Molasses, Processed Grain By-Products, Animal Fat, Calcium Stearate, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Potassium Sulfate, Magnesium Sulfate, Calcium Iodate, Magnesium Oxide, Potassium Chloride, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Zinc Sulfate, Zinc Oxide, Sodium Selenite, Ethoxyquin and BHT (preservatives).

MANUFACTURED BY  
**KENT NUTRITION GROUP, INC.**  
HEADQUARTERS IN MUSCATINE, IA 52761

*Bovatec is a registered trademark of Alpharma Animal Health*

# TOTAL STAGE® 14 DEVELOPER

## PRODUCT DESCRIPTION

A complete pelleted feed for dairy heifers and an alternative to traditional grain mix feeds. A precise combination of protein and fiber allows heifers to develop a strong muscle system and skeletal framework without excess condition. Total Stage 14 Developer is designed to be fed with a limited amount of hay.

## FEATURES AND BENEFITS

**Pelleted** for convenient handling and storage; reduced sorting; uniform nutrient and medication intake.

**Highly digestible fiber** sources help stimulate rumen function.

**High levels of calcium and phosphorus** promote bone development and skeletal growth.

**Vitamin A, D, and E** levels exceed recognized nutrient requirements for developing calves.

**Selenium yeast** is an organic source of selenium which is more biologically available to the animal.

**BoVantage® technology** is a unique source of natural organic compounds proven to be beneficial to overall animal health and performance. Can help promote a healthy rumen, stimulate intake, provide immune system support, and combat stress.

## FEEDING DIRECTIONS

Feed Total Stage 14 Developer as the sole grain ration to dairy calves after 6 months of age. It is recommended to provide forage as well. The amount fed may vary depending on heifer genetics and management preferences. Feeding amounts may also depend on the type of medication in the feed. Follow recommended feeding directions on the product label.

## RECOMMENDED MEDICATION OPTIONS

**Rumensin®** - improves weight gain and prevents coccidiosis. Feed Total Stage 14 Developer 40R at the rate of 0.7 - 5.0 lb per 100 lb body weight to provide 0.14 - 1.0 mg monensin per lb body weight per day depending on the severity of challenge up to a maximum of 200 mg/head/day of monensin (10.0 lb/head/day).

**Bovatec®** - improves weight gain and prevents coccidiosis. Feed Total Stage 14 Developer 60B at the rate of 1 mg/2.2 lb body weight per day to dairy cattle weighing up to 800 lb. Do not feed more than 360 mg/head/day or 12.0 lb of lasalocid.



## TOTAL STAGE® 14 DEVELOPER

For dairy calves.

### GUARANTEED ANALYSIS

Crude Protein, min .....	14.0%
Crude Fat, min .....	2.5%
Crude Fiber, max .....	14.0%
Acid Detergent Fiber (ADF), max .....	17.0%
Calcium (Ca), min .....	1.2%
Calcium (Ca), max .....	1.7%
Phosphorus (P), min .....	0.5%
Salt (NaCl), min .....	0.1%
Salt (NaCl), max .....	0.6%
Selenium (Se), min .....	0.3 ppm
Vitamin A, min .....	8,350 IU/lb
Vitamin D3, min .....	1,400 IU/lb
Vitamin E, min .....	70 IU/lb

4

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Roughage Products, Grain Products, Cane Molasses, Calcium Carbonate, Salt, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Thiamine Mononitrate, Magnesium Oxide, Calcium Iodate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Manganese Sulfate, Zinc Sulfate, Selenium Yeast, Reed-Sedge Peat, Natural & Artificial Flavors, Ethoxyquin & BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

*Bovatec is a registered trademark of Alpharma Animal Health  
Rumensin® is a registered trademark of Elanco Animal Health*

# TOTAL STAGE® 18 STARTER

## PRODUCT DESCRIPTION

A complete pelleted starter feed for calves and an alternative to traditional grain mix feeds. Use as a first feeding stage option of the Total Stage® Calf and Heifer Feeding Program.

## FEATURES AND BENEFITS

**Pelleted** for convenient handling and storage; reduced sorting; uniform nutrient intake; uniform medication intake

**A precise combination of protein and fiber** allows calves to grow muscle tissue quickly and safely.

**Highly digestible fiber sources** help stimulate rumen function.

**High levels of calcium and phosphorus** promote bone development and skeletal growth.

**Vitamin A, D, and E** levels exceed recognized nutrient requirements for growing calves.

**Selenium yeast** to help improve calf immunity and prevent white muscle disease.

**BoVantage® technology** is a unique source of natural organic compounds proven to be beneficial to overall animal health and performance. Can help promote a healthy rumen, stimulate intake, provide immune system support, and combat stress.



## TOTAL STAGE® 18 STARTER

For dairy calves.

### GUARANTEED ANALYSIS

Crude Protein, min .....	18.0%
Crude Fat, min .....	2.5%
Crude Fiber, max .....	13.5%
Acid Detergent Fiber (ADF), max .....	17.0%
Calcium (Ca), min .....	1.2%
Calcium (Ca), max .....	1.7%
Phosphorus (P), min .....	0.5%
Salt (NaCl), min .....	0.1%
Salt (NaCl), max .....	0.6%
Selenium (Se), min .....	0.3 ppm
Vitamin A, min .....	8,350 IU/lb
Vitamin D3, min .....	1,400 IU/lb
Vitamin E, min .....	70 IU/lb

1

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Roughage Products, Grain Products, Cane Molasses, Calcium Carbonate, Salt, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Thiamine Mononitrate, Magnesium Oxide, Calcium Iodate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Manganese Sulfate, Zinc Sulfate, Selenium Yeast, Reed-Sedge Peat, Natural & Artificial Flavors, Ethoxyquin & BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

## FEEDING DIRECTIONS

Feed 3 - 4 quarts of colostrum immediately after birth (need to provide 100 g of IgG). Feed 2 - 4 additional quarts within 12 hours of birth and feed 2 - 4 more quarts at 24 hours of age. If necessary, use an esophageal feeder.

Feed a milk replacer until 6 weeks of age or when calves have consumed 2 lb of starter/day for 3 consecutive days, whichever comes last (mix and feed according to the directions on milk replacer tags).

Start feeding when calves are 3 days old. Place a fresh supply before calves each day. The amount fed may vary depending on calf genetics and management preferences. Feeding amounts may also depend on the type of medication in the feed. Follow recommended feeding directions on the product label. It is also recommended to feed for-age when calves are consuming 7 to 8 lb post-weaning.

## RECOMMENDED MEDICATION OPTIONS

**Rumensin®** - improves weight gain and prevents coccidiosis. Feed Total Stage 18 Starter 60R at the rate of 0.47 - 3.33 lb per 100 lb body weight to provide 0.14 - 1.0 mg monensin per lb body weight per day depending on the severity of challenge up to a maximum of 200 mg/head/day of monensin (6.67 lb/head/day).

**Bovatec®** - improves weight gain and prevents coccidiosis. Feed Total Stage 18 Starter 75B at the rate of 1 mg/2.2 lb body weight per day to dairy cattle weighing up to 800 lb. Do not feed more than 360 mg/head/day or 9.6 lb of lasalocid.

**Decoxx®** - prevents coccidiosis. Feed Total Stage 18 Starter 45DQ at the rate of 1.0 lb per 100 lb body weight to provide 22.7 mg of decoquinatate per 100 lb of body weight. Feed for at least 28 days during periods of coccidiosis exposure or when experience indicates coccidiosis is likely to be a HAZARD.

*Bovatec® and Decoxx® are registered trademarks of Alpharma Animal Health  
Rumensin® is a registered trademark of Elanco Animal Health*

# TOTAL STAGE® 20 STARTER

## PRODUCT DESCRIPTION

A complete pelleted starter feed for calves and an alternative to traditional grain mix feeds. Use as a first feeding stage option of the Total Stage® Calf and Heifer Feeding Program.

## FEATURES AND BENEFITS

**Pelleted** for convenient handling and storage, reduced sorting; uniform nutrient intake; uniform medication intake

**A precise combination of protein and fiber** allows calves to grow muscle tissue quickly and safely.

**Highly digestible fiber sources** help stimulate rumen function.

**High levels of calcium and phosphorus** promote bone development and skeletal growth.

**Vitamin A, D, and E** levels exceed recognized nutrient requirements for growing calves.

**Selenium yeast** to help improve calf immunity and prevent white muscle disease.

**BoVantage®** technology is a unique source of natural organic compounds proven to be beneficial to overall animal health and performance. Can help promote a healthy rumen, stimulate intake, provide immune system support, and combat stress.

## FEEDING DIRECTIONS

Feed 3 - 4 quarts of colostrum immediately after birth (need to provide 100 g of IgG).

Feed 2 - 4 additional quarts within 12 hours of birth and feed 2 - 4 more quarts at 24 hours of age. If necessary, use an esophageal feeder.

Feed a milk replacer until 6 weeks of age or when calves have consumed 2 lb of starter per day for 3 consecutive days, whichever comes last (mix and feed according to the directions on the milk replacer tags).

Start feeding when calves are 3 days old. Place a fresh supply before calves each day. The amount fed may vary depending on calf genetics and management preferences. Feeding amounts may also depend on the type of medication in the feed. Follow recommended feeding directions on the product label. It is also recommended to feed for age if calves are consuming 7 to 8 lb post-weaning.

## RECOMMENDED MEDICATION OPTIONS

**Rumensin®** - improves weight gain and prevents coccidiosis. Feed Total Stage 20 Starter 60R at the rate of 0.47 - 3.33 lb per 100 lb body weight to provide 0.14 - 1.0 mg monensin per lb body weight per day depending on the severity of challenge up to a maximum of 200 mg/head/day of monensin (6.67 lb/head/day).

**Bovatec®** - improves weight gain and prevents coccidiosis. Feed Total Stage 20 Starter 75B at the rate of 1 mg/2.2 lb body weight per day to dairy cattle weighing up to 800 lb. Do not feed more than 360 mg/head/day or 9.6 lb of lasalocid.

**Decoxx®** - prevents coccidiosis. Feed Total Stage 20 Starter 45DQ at the rate of 1.0 lb per 100 lb body weight to provide 22.7 mg of decoquinate per 100 lb body weight. Feed for at least 28 days during periods of coccidiosis exposure or when experience indicates coccidiosis is likely to be a hazard.



## TOTAL STAGE® 20 STARTER

For dairy calves.

### GUARANTEED ANALYSIS

Crude Protein, min .....	20.0%
Crude Fat, min .....	2.5%
Crude Fiber, max .....	13.5%
Acid Detergent Fiber (ADF), max .....	17.0%
Calcium (Ca), min .....	1.2%
Calcium (Ca), max .....	1.7%
Phosphorus (P), min .....	0.5%
Salt (NaCl), min .....	0.1%
Salt (NaCl), max .....	0.6%
Selenium (Se), min .....	0.3 ppm
Vitamin A, min .....	8,350 IU/lb
Vitamin D3, min .....	1,400 IU/lb
Vitamin E, min .....	70 IU/lb

1

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Roughage Products, Grain Products, Cane Molasses, Calcium Carbonate, Salt, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Thiamine Mononitrate, Magnesium Oxide, Calcium Iodate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Manganese Sulfate, Zinc Sulfate, Selenium Yeast, Reed-Sedge Peat, Natural & Artificial Flavors, Ethoxyquin & BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

*Bovatec® and Decoxx® are registered trademarks of Alpharma Animal Health  
Rumensin® is a registered trademark of Elanco Animal Health*



# TOTAL STAGE® 16 GROWER

## PRODUCT DESCRIPTION

A complete pelleted feed for growing heifers and an alternative to traditional grain mix feeds. Designed to be fed with a limited amount of hay.

## FEATURES AND BENEFITS

**Pelleted** for convenient handling and storage; reduced sorting; uniform nutrient intake; and uniform medication intake.

**Highly digestible fiber sources** help stimulate rumen function.

**High levels of calcium and phosphorus** promote bone development and skeletal growth.

**Vitamin A, D, and E** levels exceed recognized nutrient requirements for growing calves.

**A precise combination of protein and fiber** allows calves to grow muscle tissue quickly and safely.

**Selenium yeast** to help improve calf immunity and prevent white muscle disease.

**BoVantage® technology** is a unique source of natural organic compounds proven to be beneficial to overall animal health and performance. Can help promote a healthy rumen, stimulate intake, provide immune system support, and combat stress.

## FEEDING DIRECTIONS

Feed continuously as the sole grain ration to dairy calves after weaning and up to 6 months of age. It is recommended to provide forage as well. The amount fed may vary depending on genetics and management preferences. Feeding amounts may also depend on the type of medication in the feed. Follow recommended feeding directions on the product label.

## RECOMMENDED MEDICATION OPTIONS

**Rumensin®** - improves weight gain and prevents coccidiosis.

Feed Total Stage 16 Grower 40R at the rate of 0.7 - 5.0 lb per 100 lb body weight to provide 0.14 - 1.0 mg monensin per lb body weight per day depending on the severity of challenge up to a maximum of 200 mg/head/day of monensin (10.0 lb/head/day).

**Bovatec®** - improves weight gain and prevents coccidiosis.

Feed Total Stage 16 Grower 75B at the rate of 1 mg/2.2 lb body weight per day to dairy cattle weighing up to 800 lb. Do not feed more than 360 mg/head/day or 9.6 lb of lasalocid.

**Decoxx®** - prevents coccidiosis

Feed Total Stage 16 Grower 45DQ at the rate of 1.0 lb per 100 lb body weight to provide 22.7 mg decoquinatate per 100 lb body weight. Feed at least 28 days during periods of coccidiosis exposure or when experience indicates coccidiosis is likely to be a hazard.



## TOTAL STAGE® 16 GROWER

For dairy calves.

### GUARANTEED ANALYSIS

Crude Protein, min .....	16.0%
Crude Fat, min .....	2.5%
Crude Fiber, max .....	13.5%
Acid Detergent Fiber (ADF), max .....	17.0%
Calcium (Ca), min .....	1.2%
Calcium (Ca), max .....	1.7%
Phosphorus (P), min .....	0.5%
Salt (NaCl), min .....	0.1%
Salt (NaCl), max .....	0.6%
Selenium (Se), min .....	0.3 ppm
Vitamin A, min .....	8,350 IU/lb
Vitamin D3, min .....	1,400 IU/lb
Vitamin E, min .....	70 IU/lb

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### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Roughage Products, Grain Products, Cane Molasses, Calcium Carbonate, Salt, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Thiamine Mononitrate, Magnesium Oxide, Calcium Iodate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Manganese Sulfate, Zinc Sulfate, Selenium Yeast, Reed-Sedge Peat, Natural & Artificial Flavors, Ethoxyquin & BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

# REFRESHER™ MINERAL

## PRODUCT DESCRIPTION

A mineral which is highly fortified with no added salt for dry dairy cows.

## FEATURES AND BENEFITS

**Guaranteed vitamin and trace mineral** concentrations are vitally important to overall health and reproductive performance in early lactation.

**Provides optimum mineral balance** for dry dairy cows to help prevent milk fever when fed as recommended.

**Magnesium** added to meet the nutritional needs of the dry cow and developing fetus and reduce hypomagnesemia at calving.

**No added salt** because excessive salt may aggravate the severity of udder edema.

**The Rain-Cote® process** can reduce loss of valuable minerals and vitamins that are exposed to weather.

**Rain-Cote minerals** with improved water resistance stay free-flowing even on the wettest days.

**Organic selenium** helps reduce somatic cell counts, mastitis incidences, and other metabolic problems in calving and helps prevent white muscle disease.

**Selenium and vitamin E** supplementation may reduce cases of retained placenta and mastitis.

### Effects of Dietary Vitamin E Supplementation on Incidence of Mastitis

Treatment <sup>1</sup> Control	Decreased Mastitis Incidence vs. Control, % <sup>2</sup>
1,000 IU Vitamin E*	30%
1,000 IU Vitamin E**	37%

<sup>1</sup>Control treatments included 100 IU daily during the dry period and first 30 days of lactation. 1,000 IU treatment included 1,000 IU daily during the dry period and 500 IU daily during lactation.

<sup>2</sup>The Ohio State University data measured mastitis during first week of lactation; Smith et. al., measured mastitis over an entire lactation.

\*Source: The Ohio State University.

\*\*Source: Smith et. al. 1984

## Feeding Directions

For optimum results, force feed 4 oz per head per day to dairy cattle during the dry period.

When feeding free-choice, the amount consumed will vary according to quality and type of feedstuffs consumed.

### Example Ration for a 1400-lb Dry Cow

Ingredient	lb/cow/day
Mixed hay	24.35
Refresher™ Mineral	.25
ProVider 38	1.00
Corn silage	15.00

### NOTE: Do not feed to sheep.

Also available - Refresher Mineral 1250R - with 1250 g/ton Rumensin® for mixing in total mixed ration for dry cows for improved milk production efficiency during lactation.



## REFRESHER™ MINERAL

For dairy cattle during the dry period.

### GUARANTEED ANALYSIS

Calcium (Ca), min .....	14.5%
Calcium (Ca), max .....	17.4%
Phosphorus (P), min .....	6.0%
Magnesium (Mg), min .....	15.0%
Sulfur (S), min .....	1.0%
Copper (Cu), min .....	2,000 ppm
Cobalt (Co), min .....	85 ppm
Iron (Fe), min .....	7,500 ppm
Manganese (Mn), min .....	6,000 ppm
Selenium (Se), min .....	28 ppm
Zinc (Zn), min .....	7,200 ppm
Vitamin A, min .....	400,000 IU/lb
Vitamin D3, min .....	120,000 IU/lb
Vitamin E, min .....	4,000 IU/lb

**Warning:** This feed should be used only in accordance with directions on this label. Feed to ruminants only.

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### INGREDIENTS

Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Cane Molasses, Animal Fat, Calcium Stearate, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Zinc Amino Acid Complex, Copper Amino Acid Complex, Manganese Amino Acid Complex, Cobalt Glucoheptonate, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Zinc Sulfate, Sodium Selenite, Selenium Yeast, Saccharin Sodium, Natural & Artificial Flavors, Ethoxyquin and BHT (preservatives).

Manufactured by  
**KENT NUTRITION GROUP, INC.**  
Headquarters in Muscatine, IA 52761

Rumensin is a registered trademark of Elanco Animal Health.



# 1:1 REFRESHER™ MINERAL

## PRODUCT DESCRIPTION

Highly fortified 1:1 calcium to phosphorus mineral for dairy cows during the dry period.

## FEATURES AND BENEFITS

**Magnesium** added to meet the nutritional needs of the dry cow and developing fetus and reduce hypomagnesemia at calving.

**No added salt** because excessive salt in dry cow diets may aggravate the severity of udder edema.

**Added organic selenium** helps reduce somatic cell counts, mastitis incidences, and other metabolic problems in calving.

**Organic zinc, manganese and copper** is added for better utilization by the animal, improved colostrum quality and improved body condition.

**Rain-Cote® weather-proofed** to reduce “bricking up” in wet weather and reduces dust to help prevent valuable minerals and vitamins from blowing away.

**Guaranteed vitamin and trace mineral concentrations** are vitally important to overall health and reproductive performance in early lactation.

**Supplementing selenium and vitamin E** has been shown to reduce cases of retained placenta and mastitis.



## 1:1 REFRESHER™ MINERAL

For dairy cattle during the dry period.

### GUARANTEED ANALYSIS

Calcium (Ca), min .....	9.0%
Calcium (Ca), max .....	10.8%
Phosphorus (P), min .....	10.0%
Magnesium (Mg), min .....	15.0%
Sulfur (S), min .....	1.0%
Copper (Cu), min .....	2,000 ppm
Cobalt (Co), min .....	85 ppm
Iron (Fe), min .....	7,500 ppm
Manganese (Mn), min .....	6,000 ppm
Selenium (Se), min .....	28 ppm
Zinc (Zn), min .....	7,200 ppm
Vitamin A, min .....	475,000 IU/lb
Vitamin D3, min .....	142,500 IU/lb
Vitamin E, min .....	4,000 IU/lb

**Warning:** This feed should be used only in accordance with directions on this label. Feed to ruminants only.

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### INGREDIENTS

Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Processed Grain By-Products, Cane Molasses, Animal Fat, Petrolatum, Anise Oil, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Zinc Amino Acid Complex, Copper Amino Acid Complex, Manganese Amino Acid Complex, Cobalt Glucoheptonate, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Zinc Sulfate, Cobalt Carbonate, Magnesium Oxide, Sodium Selenite, Selenium Yeast, Ethoxyquin and BHT (preservatives).

Manufactured by  
**KENT NUTRITION GROUP, INC.**  
Headquarters in Muscatine, IA 52761

## EFFECTS OF DIETARY VITAMIN E SUPPLEMENTATION ON INCIDENCE OF MASTITIS

CONTROL TREATMENT <sup>(1)</sup>	DECREASED MASTITIS
	INCIDENCE VS. CONTROL, % <sup>(2)</sup>
1,000 IU VITAMIN E*	30%
1,000 IU VITAMIN E**	37%

<sup>(1)</sup>Control treatments included 100 IU daily during the dry period and first 30 days of lactation. 1000 IU treatment included 1000 IU daily during the dry period and 500 IU daily during lactation.

<sup>(2)</sup>The Ohio State University data measured mastitis during first week of lactation; Smith et. AL., measured mastitis over the entire lactation.

\*SOURCE: OHIO STATE UNIVERSITY. \*\*SOURCE: SMITH ET. AL. 1984

## FEEDING DIRECTIONS

For optimal results, force feed 4 oz/head/day to dairy cattle during the dry period. When feeding free-choice, the amount will vary according to quality and type of feedstuffs consumed.

## DO NOT FEED TO SHEEP

# DAIRY REFRESHER™

## PRODUCT DESCRIPTION

A fortified dry cow supplement to be fed during the dry period with roughage.

## FEATURES AND BENEFITS

**Low calcium and no added potassium** to aid in the prevention of milk fever when fed with low potassium forages.

**No added salt** to aid in the prevention of udder edema.

**Added magnesium** to meet the nutritional needs of the dry cow and developing fetus and reduce Hypomagnesemia at calving.

**Guaranteed level of selenium** which helps reduce somatic cell counts, mastitis incidences, and metabolic problems associated with calving. May help prevent white muscle disease.

**Added selenium, zinc, manganese and copper** from organic sources for better utilization by the animal, improved colostrum quality, and improved body condition.

**High level of vitamin E** for lower somatic cell count and overall reproductive health.

**Available with Rumensin®** for improved efficiency of milk production during the coming lactation. If Rumensin is added, Dairy Refresher must be a part of a total mixed ration for dry cows for improved milk production during lactation.

## MIXING AND FEEDING DIRECTIONS

Feed 2 pounds of Dairy Refresher™ per day during the dry period except for the three weeks immediately prior to freshening. Fresh Aide™ should be used during the two to three weeks prior to freshening and the first 100 days of lactation.

In high DCAD situations, FeverGuard™ should be fed the last 3 weeks of the dry period to help protect against milk fever.



## DAIRY REFRESHER™

For non-lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	20.0%
Crude Fat, min .....	2.0%
Crude Fiber, max .....	9.0%
Acid Detergent Fiber (ADF), max .....	9.5%
Calcium (Ca), min .....	1.7%
Calcium (Ca), max .....	2.2%
Phosphorus (P), min .....	0.8%
Magnesium (Mg), min .....	1.9%
Selenium (Se), min .....	4.2 ppm
Vitamin A, min .....	50,000 IU/lb
Vitamin D3, min .....	15,000 IU/lb
Vitamin E, min .....	500 IU/lb
	8

### INGREDIENTS

Processed Grain By-Products, Soybean Meal, Dried Whey, Dried Cheese Product, Sugar Foods By-Product, Cane Molasses, Calcium Carbonate, Dicalcium Phosphate, Monocalcium Phosphate, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Zinc Amino Acid Complex, Copper Amino Acid Complex, Manganese Amino Acid Complex, Cobalt Glucoheptonate, Magnesium Oxide, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Zinc Sulfate, Selenium Yeast, Ethoxyquin and BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

*Rumensin is a registered trademark of Elanco Animal Health*

# LG DAIRY REFRESHER™

## PRODUCT DESCRIPTION

A fortified dry cow supplement to be fed during the dry period with roughage (including legumes).

## FEATURES AND BENEFITS

**Low calcium and no added potassium** to aid in the prevention of milk fever when fed with low potassium forages.

**No added salt** to aid in the prevention of udder edema.

**Added magnesium** to meet the nutritional needs of the dry cow and developing fetus and reduce hypomagnesemia at calving.

**Guaranteed level of selenium** which helps reduce somatic cell counts, mastitis incidences, and metabolic problems associated with calving. Helps prevent white muscle disease.

**Added selenium, zinc, manganese and copper from organic sources** for better utilization by the animal, improved colostrum quality, and improved body condition.

**High level of vitamin E** for lower somatic cell count and overall reproductive health.

**Available with Rumensin®** for improved efficiency of milk production during the coming lactation.

## MIXING AND FEEDING DIRECTIONS

Feed 2 lb per day during the dry period except for the 3 weeks immediately prior to freshening. Fresh Aide™ should be used during the 2 - 3 weeks prior to freshening and the first 100 days of lactation. In high DCAD situations, FeverGuard™ should be fed the last 3 weeks of the dry period to help protect against milk fever.



## LG DAIRY REFRESHER™

For non-lactating dairy cows fed rations containing legumes.

### GUARANTEED ANALYSIS

Crude Protein, min .....	20.0%
Crude Fat, min .....	2.0%
Crude Fiber, max .....	9.0%
Acid Detergent Fiber (ADF), max .....	9.5%
Calcium (Ca), min .....	0.6%
Calcium (Ca), max .....	1.1%
Phosphorus (P), min .....	1.7%
Magnesium (Mg), min .....	1.9%
Selenium (Se), min .....	4.8 ppm
Vitamin A, min .....	98,000 IU/lb
Vitamin D3, min .....	45,000 IU/lb
Vitamin E, min .....	500 IU/lb

1

### INGREDIENTS

Processed Grain By-Products, Soybean Meal, Dried Whey, Dried Cheese Product, Sugar Foods By-Product, Cane Molasses, Dicalcium Phosphate, Monocalcium Phosphate, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Animal Fat, Zinc Amino Acid Complex, Copper Amino Acid Complex, Manganese Amino Acid Complex, Cobalt Glucoheptonate, Magnesium Oxide, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Zinc Sulfate, Selenium Yeast, Ethoxyquin and BHT (preservatives).

Manufactured by

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# FRESH AIDE™

## PRODUCT DESCRIPTION

A transition product designed to help bring cows up on feed pre- and post-fresh and to help compensate for the depression in dry matter intake commonly seen just prior to freshening.

## FEATURES AND BENEFITS

**Supplemental selenium and vitamin E** has been shown to reduce cases of retained placenta and mastitis.

**Niacin** is included to elevate blood glucose concentrations, which may result in less fat mobilization. This action helps lower blood NEFA concentrations and aids in preventing ketosis.

**Zinc methionine (Zinpro®)** increases milk production, helps prevent hoof problems and plays a key role in the immune system.

**Guaranteed vitamin concentrations and highly bio-available sources of major and trace minerals** are vitally important to overall health and reproductive performance in early lactation. High bio-availability increases tissue absorption for improved health and reproduction.

**Guaranteed copper cobalt and zinc** concentrations improves immune function response and conception rates.

**Sel-Plex®** allows for reserve supplies of selenium which is needed for transfer to fetus. Helps improve the immune system of the calf. Helps improve the cow's reproductive function.

## FEEDING DIRECTIONS

Use 3 weeks prior to freshening and during the first 90 days of lactation.

**Hand Feeding** - top-dress at the rate of 2 lb/cow/day. For maximum consumption, mix into the other feed stuffs.

**Grind and Mix** - should be added to a grind and mix ration at a level to provide an intake of 2 lb/cow/day.



## FRESH AIDE™

A supplement for lactating and non-lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	38.0%
Crude Fat, min .....	1.5%
Crude Fiber, max .....	6.0%
Acid Detergent Fiber (ADF), max .....	7.0%
Calcium (Ca), min .....	1.5%
Calcium (Ca), max .....	2.0%
Phosphorus (P), min .....	2.0%
Salt (NaCl), min .....	0.8%
Salt (NaCl), max .....	1.3%
Cobalt (Co), min .....	3.7 ppm
Copper (Cu), min .....	140 ppm
Manganese (Mn), min .....	315 ppm
Selenium (Se), min .....	5.0 ppm
Zinc (Zn), min .....	550 ppm
Vitamin A, min .....	60,000 IU/lb
Vitamin D3, min .....	16,000 IU/lb
Vitamin E, min .....	500 IU/lb
Niacin, min .....	3,000 mg/lb

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### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Cane Molasses, Sodium Bicarbonate, Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Menadione Dimethylpyrimidinol Bisulfite (source of Vitamin K Activity), Riboflavin Supplement, Niacin Supplement, Calcium Pantothenate, Vitamin B12 Supplement, Zinc Amino Acid Complex, Copper Amino Acid Complex, Manganese Amino Acid Complex, Cobalt Glucoheptonate, Folic Acid, Biotin, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Zinc Sulfate, Selenium Yeast, Ethoxyquin and BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

# 20-10 PLUS MINERAL™

## PRODUCT DESCRIPTION

A mineral for lactating dairy cattle, dairy heifers, beef cattle on pasture or in the feedlot and growing beef calves.

## FEATURES AND BENEFITS

**Monocalcium and dicalcium phosphate** are two readily available sources of phosphorus for livestock.

**High vitamin fortification** is vitally important to the overall health and reproductive performance of all animals.

**Rain-Cote minerals** with improved water resistance stay free-flowing and palatable even on the wettest days.

## MIXING & FEEDING DIRECTIONS

To force feed, use product to meet requirements for minerals and vitamins as specified in a balanced ration. See your KNG representative for assistance in balancing a ration.

To make a free-choice mineral mix, combine product and salt in a 9:1 ratio. Free-choice this mix in a dry, clean bunk or mineral feeder. The amount consumed will vary depending on the quality, type, and quantity of feedstuffs available.

Approximate Daily Consumption	
Species	Free-Choice Mix
Dairy Cattle	1 - 4 oz
Beef Cattle & Calves	1 - 3 oz

**Do not feed to sheep.**



## 20-10 PLUS MINERAL™

For dairy cattle, dairy heifers, beef cattle on pasture or in the feedlot and growing beef calves.

### GUARANTEED ANALYSIS

Calcium (Ca), min.....	18.5%
Calcium (Ca), max.....	22.2%
Phosphorus (P), min. ....	10.0%
Salt (NaCl), min.....	4.5%
Salt (NaCl), max. ....	5.5%
Magnesium (Mg), min.....	1.2%
Potassium (K), min.....	1.2%
Copper (Cu), min.....	400 ppm
Manganese (Mn), min.....	2,100 ppm
Selenium (Se), min. ....	35 ppm
Zinc (Zn), min.....	2,100 ppm
Vitamin A, min. ....	240,000 IU/lb
Vitamin D3, min. ....	50,000 IU/lb
Vitamin E, min.....	600 IU/lb

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### INGREDIENTS

Monocalcium Phosphate, Dicalcium Phosphate, Salt, Calcium Carbonate, Cane Molasses, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Animal Fat, Calcium Stearate, Potassium Sulfate, Magnesium Sulfate, Calcium Iodate, Magnesium Oxide, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Zinc Sulfate, Sodium Selenite, Saccharin Sodium, Natural & Artificial Flavors, Ethoxyquin and BHT (preservatives).

Manufactured by  
**KENT NUTRITION GROUP, INC.**  
 Headquarters in Muscatine, IA 52761

# BIO-PLUS MINERAL™

## PRODUCT DESCRIPTION

A high phosphorus mineral with added vitamins which can be fed free-choice or mixed in the ration for beef and dairy cattle.

## FEATURES AND BENEFITS

**1:1 calcium:phosphorus ratio** maximizes animal performance by providing excellent mineral balance when combined with most feedstuffs.

**Rain-Cote minerals** with improved water resistance stay free-flowing and palatable even on the wettest days.

**Low cost per unit of phosphorus** reduces cost of gain or production.

**Palatable** because the addition of salt, cane molasses and flavor stimulates consumption to meet animals' mineral and vitamin needs.

**Trace minerals** are vitally important to the overall health of all animals.

**Monocalcium and dicalcium phosphate** are the two most readily available sources of phosphorus for live-stock.

**Guaranteed vitamin levels** are vitally important to the overall health and reproductive performance of all animals.

**Stabilized vitamins** prevents destruction of vitamins in the presence of trace minerals.

**Sodium selenite** to provide a nutritional source of selenium.

## FEEDING DIRECTIONS

To force feed, use to meet requirements for minerals and vitamins as specified in a balanced ration. Consult a KNG representative for assistance in balancing a ration.

Free-choice product in a dry, clean bunk or mineral feeder. The amount consumed will vary depending on the quality, type and quantity of feedstuffs available. Offer salt free-choice for beef and dairy.

<u>Species</u>	<u>Approximate Daily Consumption</u>
Beef cattle & calves	1 - 2 oz
Dairy cattle	1 - 3 oz
Horses	0.5 - 1 oz

Each ounce of product will provide 15,000 IU of vitamin A and 3,125 IU of vitamin D3 and 37.5 IU of vitamin E.

**Do not feed to sheep.**



## BIO-PLUS MINERAL™

For cattle on pasture or in the feedlot; growing calves; dairy cattle; growing and mature horses.

### GUARANTEED ANALYSIS

Calcium (Ca), min .....	16.0%
Calcium (Ca), max .....	19.2%
Phosphorus (P), min .....	16.0%
Salt (NaCl), min .....	5.2%
Salt (NaCl), max .....	6.2%
Magnesium (Mg), min .....	0.5%
Potassium (K), min .....	0.5%
Copper (Cu), min .....	400 ppm
Manganese (Mn), min .....	2,100 ppm
Selenium (Se), min .....	30 ppm
Zinc (Zn), min .....	2,100 ppm
Vitamin A, min .....	240,000 IU/lb
Vitamin D3, min .....	50,000 IU/lb
Vitamin E, min .....	600 IU/lb

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### INGREDIENTS

Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, Cane Molasses, Animal Fat, Calcium Stearate, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Magnesium Sulfate, Potassium Sulfate, Magnesium Oxide, Potassium Chloride, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Zinc Sulfate, Zinc Oxide, Sodium Selenite, Saccharin Sodium, Natural & Artificial Flavors, Ethoxyquin and BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

# VARIMIX® DAIRY MINERALS

## PRODUCT DESCRIPTION

Formulated for lactating cows to supply required amounts of calcium and phosphorus along with vitamins and trace minerals. When used in a TMR, this product will provide an economical and nutritionally balanced dairy ration to maintain performance, production, and health.

## FEATURES AND BENEFITS

**Ca:P** is available in four ratios to balance diets across a wide range of dietary forages.

Ratio	Feeding Rate (lb/cow/day)
1:1	0.50
2:1	0.80
3:1	0.80
6:1	1.00

Vitamins, fed at recommended rate -

**Vitamin A - 20,000 IU/cow/day**

**Vitamin D - 40,000 IU/cow/day**

**Vitamin E - 800 IU/cow/day**

**Available with salt** (plus). When fed at recommended levels the plus formulations provide 0.225 lb salt/cow/day.



## VARIMIX® 1:1 MINERAL

For lactating dairy cattle.

### GUARANTEED ANALYSIS

Calcium (Ca), min .....	13.0%
Calcium (Ca), max .....	15.6%
Phosphorus (P), min .....	14.0%
Magnesium (Mg), min .....	6.3%
Copper (Cu), min .....	2,000 ppm
Manganese (Mn), min .....	6,000 ppm
Selenium (Se), min .....	28.8 ppm
Zinc (Zn), min .....	6,000 ppm
Vitamin A, min .....	400,000 IU/lb
Vitamin D3, min .....	80,000 IU/lb
Vitamin E, min .....	1,000 IU/lb

1

### INGREDIENTS

Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Processed Grain By-Products, Magnesium Oxide, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Zinc Sulfate, Cobalt Carbonate, Sodium Selenite, Ethoxyquin and BHT (preservatives)



## VARIMIX® 2:1 MINERAL

For lactating dairy cows.

### GUARANTEED ANALYSIS

Calcium (Ca), min .....	18.0%
Calcium (Ca), max .....	21.6%
Phosphorus (P), min .....	10.0%
Magnesium (Mg), min .....	4.0%
Copper (Cu), min .....	1,200 ppm
Manganese (Mn), min .....	3,800 ppm
Selenium (Se), min .....	18.0 ppm
Zinc (Zn), min .....	3,800 ppm
Vitamin A, min .....	250,000 IU/lb
Vitamin D3, min .....	50,000 IU/lb
Vitamin E, min .....	1,000 IU/lb

1

### INGREDIENTS

Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Processed Grain By-Products, Magnesium Oxide, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Zinc Sulfate, Cobalt Carbonate, Sodium Selenite, Ethoxyquin and BHT (preservatives).





## VARIMIX® 3:1 MINERAL

For lactating dairy cows.

### GUARANTEED ANALYSIS

Calcium (Ca), min .....	17.6%
Calcium (Ca), max .....	21.1%
Phosphorus (P), min .....	6.5%
Magnesium (Mg), min .....	4.0%
Copper (Cu), min .....	1,200 ppm
Manganese (Mn), min .....	3,700 ppm
Selenium (Se), min .....	18.0 ppm
Zinc (Zn), min .....	3,700 ppm
Vitamin A, min .....	250,000 IU/lb
Vitamin D3, min .....	50,000 IU/lb
Vitamin E, min .....	1,000 IU/lb

### INGREDIENTS

1

Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Processed Grain By-Products, Magnesium Oxide, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Zinc Sulfate, Cobalt Carbonate, Sodium Selenite, Ethoxyquin and BHT (preservatives).



## VARIMIX® 6:1 MINERAL

For lactating dairy cows.

### GUARANTEED ANALYSIS

Calcium (Ca), min .....	24.5%
Calcium (Ca), max .....	29.5%
Phosphorus (P), min .....	4.5%
Magnesium (Mg), min .....	4.0%
Copper (Cu), min .....	1,000 ppm
Manganese (Mn), min .....	3,000 ppm
Selenium (Se), min .....	14.5 ppm
Zinc (Zn), min .....	3,000 ppm
Vitamin A, min .....	200,000 IU/lb
Vitamin D3, min .....	40,000 IU/lb
Vitamin E, min .....	1800 IU/lb

1

### INGREDIENTS

Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Magnesium Oxide, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Magnesium Sulfate, Potassium Sulfate, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Zinc Sulfate, Cobalt Carbonate, Sodium Selenite, Ethoxyquin and BHT (preservatives)

# SPECIAL DAIRY 16, 18, & 20

## PRODUCT DESCRIPTION

Variable formula complete dairy feeds designed to take advantage of ingredient markets at the expense of the benefits a fixed formula offers.

## FEATURES AND BENEFITS

**Convenient** to handle products to be used as sole grain ration. Simplifies inventory needs.

## FEEDING DIRECTION

Feed as the sole grain ration to dairy cows along with roughage.



## SPECIAL DAIRY 18

For lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	18.0%
Crude Fat, min .....	4.0%
Crude Fiber, max .....	10.5%
Acid Detergent Fiber (ADF), max .....	12.5%
Calcium (Ca), min .....	1.0%
Calcium (Ca), max .....	1.5%
Phosphorus (P), min .....	0.4%
Salt (NaCl), min .....	0.7%
Salt (NaCl), max .....	1.2%
Selenium (Se), min .....	0.6 ppm
Vitamin A, min .....	7,000 IU/lb
Vitamin D3, min .....	1,400 IU/lb
Vitamin E, min .....	25 IU/lb

5

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Grain Products, Roughage Products, Forage Products, Cane Molasses, Animal Fat, Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Sodium Bicarbonate, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Ferrous Sulfate, Zinc Sulfate, Copper Sulfate, Manganese Sulfate, Magnesium Oxide, Potassium Chloride, Calcium Iodate, Cobalt Carbonate, Sodium Selenite, Ethoxyquin and BHT (preservatives).



## SPECIAL DAIRY 16

For lactating cows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	16.0%
Crude Fat, min .....	4.0%
Crude Fiber, max .....	10.5%
Acid Detergent Fiber (ADF), max .....	12.5%
Calcium (Ca), min .....	1.0%
Calcium (Ca), max .....	1.5%
Phosphorus (P), min .....	0.4%
Salt (NaCl), min .....	0.7%
Salt (NaCl), max .....	1.2%
Selenium (Se), min .....	0.6 ppm
Vitamin A, min .....	7,000 IU/lb
Vitamin D3, min .....	1,400 IU/lb
Vitamin E, min .....	25 IU/lb

5

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Grain Products, Roughage Products, Forage Products, Cane Molasses, Animal Fat, Calcium Carbonate, Salt, Sodium Bicarbonate, Monocalcium Phosphate, Dicalcium Phosphate, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Ferrous Sulfate, Zinc Sulfate, Copper Sulfate, Manganese Sulfate, Magnesium Oxide, Potassium Chloride, Calcium Iodate, Cobalt Carbonate, Sodium Selenite, Ethoxyquin and BHT (preservatives).



## SPECIAL DAIRY 20

For lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min, % .....	20.0
Crude Fat, min, % .....	4.0
Crude Fiber, max, % .....	9.5
Acid Detergent Fiber, max, % .....	10.0
Calcium, min, % .....	1.0
Calcium, max, % .....	1.5
Phosphorus, min, % .....	0.4
Salt, min, % .....	0.7
Salt, max, % .....	1.2
Selenium, min, ppm .....	0.6
Vitamin A, min, IU/lb .....	7,000
Vitamin D3, min, IU/lb .....	1,400
Vitamin E, min, IU/lb .....	25

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Grain Products, Roughage Products, Forage Products, Cane Molasses, Animal Fat, Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Sodium Bicarbonate, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Ferrous Sulfate, Zinc Sulfate, Copper Sulfate, Manganese Sulfate, Magnesium Oxide, Potassium Chloride, Calcium Iodate, Cobalt Carbonate, Sodium Selenite, Ethoxyquin and BHT (preservatives).

# PROTAIN™ 33/60

# PROTAIN™ 40/65

## PRODUCT DESCRIPTION

Kent base mixes supplying by-pass protein, macro and trace minerals, and vitamins to the ration are meant to be used as the sole bypass source along with soybean meal or with ingredients such as roasted soybeans, whole cottonseed, and distillers grains.

ProTain products are designed for dairies using by-pass protein and feeding co-product protein sources. The number of variables found on each farm requires an individualized approach to ration formulation. KNG Ration Formulation software can be used to develop customer specific formulations. Contact a KNG representative for more information.

ProTain 33/60 is designed for diets with a low protein/low calcium concentration and ProTain 40/65 is for diets with a high protein/high calcium concentration. The wide variety of ingredients used in some diets contributes to the total protein and calcium concentration.

## FEATURES AND BENEFITS

**Consistent RUP source** to reduce fluctuations in protein quality.

**Multiple RUP sources** provide an optimal amino acid pattern to the small intestine.

**Formulated to be used with many co-product protein sources.**

**Achieves a 3:1 lysine-to-methionine ratio** when balanced with soy proteins.

**Meets all vitamin and trace mineral needs** of high-producing cows when fed at the recommended rate.

## FEEDING DIRECTIONS

**Feed ProTain 33/60** at a minimum of 2 lb per cow per day to ensure adequate supplementation of macro and trace minerals as well as vitamins. If supplementing with Bio-Plus Mineral™ or 20-10 Mineral™, the minimum can be reduced to as low as 1.5 lb per cow per day.

**Feed ProTain 40/65** at a minimum of 3 lb per cow per day to ensure adequate supplementation of macro and trace minerals as well as vitamins. If supplementing with Bio-Plus Mineral or 20-10 Mineral, the minimum can be reduced to as low as 2 lb per cow per day.



## PROTAIN™ 33/60

For lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	33.0%
Crude Fat, min .....	1.5%
Crude Fiber, max .....	5.0%
Acid Detergent Fiber (ADF), max .....	7.0%
Calcium (Ca), min .....	9.2%
Calcium (Ca), max .....	11.0%
Phosphorus (P), min .....	2.1%
Salt (NaCl), min .....	10.2%
Salt (NaCl), max .....	12.2%
Magnesium (Mg), min .....	0.8%
Potassium (K), min .....	0.6%
Selenium (Se), min .....	7.0 ppm
Vitamin A, min .....	90,000 IU/lb
Vitamin D3, min .....	18,000 IU/lb
Vitamin E, min .....	300 IU/lb

2

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Fish Meal, Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Potassium Chloride, Zinc Sulfate, Sodium Selenite, Ethoxyquin and BHT (preservatives).



## PROTAIN™ 40/65

For lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	40.0%
Crude Fat, min .....	1.5%
Crude Fiber, max .....	5.0%
Acid Detergent Fiber (ADF), max .....	7.0%
Calcium (Ca), min .....	3.2%
Calcium (Ca), max .....	4.2%
Phosphorus (P), min .....	1.5%
Salt (NaCl), min .....	7.2%
Salt (NaCl), max .....	8.6%
Magnesium (Mg), min .....	1.8%
Potassium (K), min .....	0.6%
Selenium (Se), min .....	5.0 ppm
Vitamin A, min .....	70,000 IU/lb
Vitamin D3, min .....	14,000 IU/lb
Vitamin E, min .....	200 IU/lb

2

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Fish Meal, Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Manganous Oxide, Zinc Sulfate, Sodium Selenite, Ethoxyquin and BHT (preservatives).

# PROVIDER™ 38

## PROVIDER™ NE<sub>L</sub> 386

## PROVIDER™ NE<sub>L</sub> 388

## PROVIDER™ NE<sub>L</sub> 3811

### PRODUCT DESCRIPTION

Product of choice when available forages (such as corn silage) contain higher concentrations of RUP (rumen undegraded protein) as a percent of crude protein. ProVider 38 is a 38% protein, moderate RUP supplement (approximately 40% of the crude protein in ProVider 38 is RUP).

### FEATURES AND BENEFITS

- Pro Vider 38
- Pro Vider NE<sub>L</sub> 386
- Pro Vider NE<sub>L</sub> 388
- Pro Vider NE<sub>L</sub> 3811

**Moderate concentration of RUP** (approximately 40% of crude protein) to maximize total available protein in the small intestine with corn silage based diets.

**Carefully adjusted lysine-to-methionine ratio** which are key limiting amino acids for milk production.

**Optimum nutrient concentrations** to meet maintenance and milk production.

### ADDITIONAL BENEFITS OF

- ProVider NE<sub>L</sub> 386
- ProVider NE<sub>L</sub> 388
- ProVider NE<sub>L</sub> 3811

**Added fat** for increasing energy intake in early lactation and maintaining neutral detergent fiber % when compared to feeding additional grain. Increases milk production, milk fat %, energy balance, and reproductive performance.

### FEEDING DIRECTIONS

Feed to dairy cows or heifers at the rate of 1.0 - 8.0 lb per head per day.



## PROVIDER™ 38

A supplement for lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	38.0%
Crude Fat, min .....	1.0%
Crude Fiber, max .....	4.5%
Acid Detergent Fiber (ADF), max .....	8.0%
Calcium (Ca), min .....	2.3%
Calcium (Ca), max .....	2.8%
Phosphorus (P), min .....	0.9%
Salt (NaCl), min .....	1.5%
Salt (NaCl), max .....	2.0%
Magnesium (Mg), min .....	0.4%
Potassium (K), min .....	1.4%
Selenium (Se), min .....	1.5 ppm
Vitamin A, min .....	20,000 IU/lb
Vitamin D3, min .....	4,000 IU/lb
Vitamin E, min .....	70 IU/lb

2

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Cane Molasses, Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Zinc Sulfate, Sodium Selenite, Ethoxyquin and BHT (preservatives).



## PROVIDER™ NE<sub>L</sub> 388

A supplement for lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	38.0%
Crude Fat, min .....	8.0%
Crude Fiber, max .....	3.5%
Acid Detergent Fiber (ADF), max .....	6.0%
Calcium (Ca), min .....	2.5%
Calcium (Ca), max .....	3.5%
Phosphorus (P), min .....	0.9%
Salt (NaCl), min .....	1.5%
Salt (NaCl), max .....	2.0%
Magnesium (Mg), min .....	0.4%
Potassium (K), min .....	1.4%
Selenium (Se), min .....	1.5 ppm
Vitamin A, min .....	20,000 IU/lb
Vitamin D3, min .....	4,000 IU/lb
Vitamin E, min .....	70 IU/lb

3

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Cane Molasses, Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Zinc Oxide, Zinc Sulfate, Sodium Selenite, Ethoxyquin and BHT (preservatives).

*continued*



## PROVIDER™ NE<sub>L</sub> 3811

A supplement for lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	38.0%
Crude Fat, min .....	11.0%
Crude Fiber, max .....	3.5%
Acid Detergent Fiber (ADF), max .....	6.0%
Calcium (Ca), min .....	2.5%
Calcium (Ca), max .....	3.5%
Phosphorus (P), min .....	0.9%
Salt (NaCl), min .....	1.5%
Salt (NaCl), max .....	2.0%
Magnesium (Mg), min .....	0.4%
Potassium (K), min .....	1.4%
Selenium (Se), min .....	1.5 ppm
Vitamin A, min .....	20,000 IU/lb
Vitamin D3, min .....	4,000 IU/lb
Vitamin E, min .....	70 IU/lb

3

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Blood Meal, Cane Molasses, Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Zinc Sulfate, Sodium Selenite, Ethoxyquin and BHT (preservatives).



## PROVIDER™ NE<sub>L</sub> 386

For lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	38.0%
Crude Fat, min .....	6.0%
Crude Fiber, max .....	3.5%
Acid Detergent Fiber (ADF), max .....	6.0%
Calcium (Ca), min .....	2.5%
Calcium (Ca), max .....	3.5%
Phosphorus (P), min .....	0.9%
Salt (NaCl), min .....	1.5%
Salt (NaCl), max .....	2.0%
Magnesium (Mg), min .....	0.4%
Potassium (K), min .....	1.4%
Selenium (Se), min .....	1.5 ppm
Vitamin A, min .....	20,000 IU/lb
Vitamin D3, min .....	4,000 IU/lb
Vitamin E, min .....	70 IU/lb

2

### INGREDIENTS

Processed Grain By-Products, Plant Protein Products, Cane Molasses, Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, Animal Fat, Vitamin A Acetate, Vitamin D3 Supplement, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Zinc Oxide, Zinc Sulfate, Sodium Selenite, Ethoxyquin and BHT (preservatives).

# MILK PRO™ 38

**PRODUCT DESCRIPTION**

An all-natural protein supplement designed to be mixed or top dressed.

**FEATURES AND BENEFITS**

**All-natural protein** is preferred for top dressing, consumption and palatability reasons.

**Offers Kent’s rigid control of quality ingredients and manufacturing practices** with a competitive dairy supplement.



## MILK PRO™ 38

A supplement for lactating dairy cows.

**GUARANTEED ANALYSIS**

Crude Protein, min .....	38.0%
Crude Fat, min .....	0.5%
Crude Fiber, max .....	10.0%
Acid Detergent Fiber (ADF), max .....	14.0%
Calcium (Ca), min .....	2.0%
Calcium (Ca), max .....	2.5%
Phosphorus (P), min .....	0.6%
Salt (NaCl), min .....	1.6%
Salt (NaCl), max .....	2.1%
Selenium (Se), min .....	2.2 ppm
Vitamin A, min .....	16,000 IU/lb
Vitamin D3, min .....	3,300 IU/lb
Vitamin E, min .....	60 IU/lb

9

**INGREDIENTS**

Plant Protein Products, Processed Grain By-Products, Cane Molasses, Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Vitamin A Acetate, D-Activated Animal Sterol (source of Vitamin D3), Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Zinc Sulfate, Potassium Chloride, Sodium Selenite, Ethoxyquin and BHT (preservatives).

Manufactured by  
**KENT NUTRITION GROUP, INC.**  
Headquarters in Muscatine, IA 52761

# 38% DAIRY

## PRODUCT DESCRIPTION

An all-natural protein supplement fortified nutritionally to meet the supplement needs for milk production. It can be mixed or top dressed.

## FEATURES AND BENEFITS

**All-natural protein** is preferred for top dressing, consumption and palatability reasons.

**Guaranteed** fortification with quality ingredients for good absorption of nutrients.



## 38% DAIRY

A supplement for lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	38.0%
Crude Fat, min .....	1.0%
Crude Fiber, max .....	7.5%
Acid Detergent Fiber (ADF), max .....	7.0%
Calcium (Ca), min .....	2.0%
Calcium (Ca), max .....	2.5%
Phosphorus (P), min .....	0.8%
Salt (NaCl), min .....	1.2%
Salt (NaCl), max .....	1.7%
Selenium (Se), min .....	2.2 ppm
Vitamin A, min .....	18,000 IU/lb
Vitamin D3, min .....	3,500 IU/lb
Vitamin E, min .....	60 IU/lb

### INGREDIENTS

9

Soybean Meal, Processed Grain By-Products, Cane Molasses, Animal Fat, Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, D-Activated Animal Sterol (source of Vitamin D3), Vitamin A Acetate, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Zinc Sulfate, Potassium Chloride, Sodium Selenite, Ethoxyquin and BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761



# 40% DAIRY

## PRODUCT DESCRIPTION

An all-natural protein supplement fortified nutritionally to meet the supplement needs for milk production. It can be mixed or top dressed.

## FEATURES AND BENEFITS

**All-natural protein** is preferred for top dressing, consumption and palatability reasons.

**Guaranteed** fortification with quality ingredients for good absorption of nutrients.

## FEEDING DIRECTIONS

Hand feed to dairy cows or heifers at the rate of 1 to 8 pounds per head, or mix a complete grain feed as follows:



## 40% DAIRY

A supplement for lactating dairy cows.

### GUARANTEED ANALYSIS

Crude Protein, min.....	40.0%
Crude Fat, min .....	1.0%
Crude Fiber, max.....	6.0%
Acid Detergent Fiber (ADF), max.....	6.0%
Calcium (Ca), min.....	1.1%
Calcium (Ca), max.....	1.6%
Phosphorus (P), min.....	1.0%
Salt (NaCl), min.....	1.2%
Salt (NaCl), max.....	1.7%
Magnesium (Mg), min.....	0.7%
Potassium (K), min.....	1.7%
Selenium (Se), min.....	2.2 ppm
Vitamin A, min.....	20,000 IU/lb
Vitamin D3, min.....	4,000 IU/lb
Vitamin E, min.....	70 IU/lb

23

### INGREDIENTS

Processed Grain By-Products, Soybean Meal, Cane Molasses, Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, Sodium Bicarbonate, Animal Fat, Vitamin D3 Supplement, Vitamin A Acetate, Vitamin E Supplement, Calcium Iodate, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Magnesium Oxide, Zinc Sulfate, Potassium Chloride, Sodium Selenite, Ethoxyquin and BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

	14%	16%	18%	20%
Cracked or ground corn	1345	1225	1078	955
Oats or barley (ground)	200	200	200	200
Kent 40% Dairy	325	450	600	725
Kent Molasses Supplement	100	100	100	100
Kent mineral	20	15	15	15
Salt	10	10	7	5
Total, lb	2000	2000	2000	2000

Feed these grain mixes along with roughage.

Contact your KNG Representative or Kent dealer for more details and specific mineral recommendations.

# KATTL BULK® MIX

## PRODUCT DESCRIPTION

This bulky product is added for additional palatability and texture to the ration. This product will increase water consumption for more feed intake.

## FEATURES AND BENEFITS

**Palatable** for better consumption and performance.

**Added vitamin A** to aid in the prevention of secondary infections and provide healthier tissues.

## MIXING AND FEEDING DIRECTIONS

Mix at the rate of 100 - 200 lb per ton of ration or top-dress at the rate of 0.5 to 1.5 lb per head per day.



## KATTL BULK® MIX

A supplement for mixing in rations fed to beef cattle, dairy cattle, horses and sows.

### GUARANTEED ANALYSIS

Crude Protein, min .....	10.0%
Crude Fat, min .....	2.0%
Crude Fiber, max .....	12.5%
Acid Detergent Fiber (ADF), max .....	16.5%
Calcium (Ca), min .....	0.5%
Calcium (Ca), max .....	1.0%
Phosphorus (P), min .....	0.5%
Salt (NaCl), min .....	0.5%
Salt (NaCl), max .....	1.0%
Potassium (K), min .....	1.1%
Copper (Cu), min .....	20 ppm
Selenium (Se), min .....	0.3 ppm
Zinc (Zn), min .....	70 ppm
Vitamin A, min .....	8,000 IU/lb

**15**

### INGREDIENTS

Cane Molasses, Processed Grain By-Products, Plant Protein Products, Roughage Products, Calcium Carbonate, Salt, Vitamin A Acetate, Vitamin D3 Supplement, Calcium Iodate, Manganese Sulfate, Zinc Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Carbonate, Sodium Selenite, Ethoxyquin and BHT (preservatives).

Manufactured by

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

# KENT-O-LASS™

## PRODUCT DESCRIPTION

A high-molasses product on a dry carrier.

## FEATURES AND BENEFITS

**Adds palatability** to all livestock rations for improved feed and water consumption. Performance will improve as intake is improved.

**Dry** to eliminate messy mixing as with liquids, and distributes evenly and thoroughly in feeds.

**Moisture-resistant 50-lb bags** to eliminate caking and stays free-flowing.

**Natural high-energy sugars, sweetness, and aroma** to change a ration animals eat sparingly, to one they really go for.

(Available at select locations only.)

## FEEDING DIRECTIONS

Kent-O-Lass is a dried, easy-to-use molasses product. Mix with other ingredients to make a ration for cattle, sheep or swine.

The following levels of Kent-O-Lass per ton of complete feed will give the best results:

- Dairy Feeds: 100 - 200 lb.
- Beef Feeds: 50 - 100 lb.
- Calf Feeds: 5 lb per 100 lb, or 100 lb/ton.
- Laying Mashers: 2.5 lb per 100 lb, or 50 lb/ton.
- Chick Starter-Grower: 2.5 lb per 100 lb, or 50 lb/ton.
- Turkey Grower Mashers: 2.5 lb per 100 lb or 50 - 100 lb/ton.
- Pig Starters: 5 lb per 100 lb, or 100 lb/ton.
- Pig Starter Concentrates: 2.5 lb per 100 lb, or 50 lb/ton.
- Pig Grower Concentrates: 2.5 lb per 100 lb, or 50 lb/ton.
- Sheep Feeds: 5 lb to 7.5 lb per 100 lb, or 100 - 150 lb/ton.

For individual feeding use 1 - 2 oz per cwt per head per day.

For silage, this product is economical and easy to use. It sweetens the silage, cuts down high moisture, adds real feeding value and helps prevent spoilage. Use from 25 - 100 lb per ton.



## KENT-O-LASS™

For beef and dairy cattle, swine and sheep.

### GUARANTEED ANALYSIS

Crude Protein, min .....	4.0%
Crude Fat, min .....	0.1%
Crude Fiber, max .....	24.0%
Total Sugars, as invert, min .....	38.0%

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### INGREDIENTS

Molasses Products, Roughage Products.

Manufactured for

**KENT NUTRITION GROUP, INC.**

Headquarters in Muscatine, IA 52761

# ENERGY BOOSTER 100®

## PRODUCT DESCRIPTION

An energy-dense supplement containing 98% total fatty acids. This is designed to be fed to high-producing lactating dairy cows as an alternative to liquid fats.

## FEATURES AND BENEFITS

**18% more fat** than other leading bypass fats.

**18% more NE<sub>L</sub>** for the extra energy high-producers need for maximum production.

**More palatable** than calcium salt-based fats.

**High fat level** will help to improve milk production and reproductive performance. The high fat level also provides an alternative to liquid fats.

## FEEDING DIRECTIONS

Can be top-dressed or mixed into the complete grain mix. Feed at the rate of 1 - 2 lb/head/day. For optimum milk production, balance rations using KNG ration-balancing software.

Store in a cool, dry place. Do not store in an area above 115° F.

Contact a KNG representative for ration-balancing advice. Call your local KNG plant for product availability.



## ENERGY BOOSTER 100®

For lactating dairy cattle.

### GUARANTEED ANALYSIS

Total Fatty acids, min .....	98.0%
Unsaponifiable Matter, max .....	2.0%
Insoluble Impurities, max .....	1.0%
Moisture, max .....	1.0%

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### INGREDIENTS

Hydrolyzed Animal Fat (preserved with BHT).

*Energy Booster 100 is a trademark of Milk Specialties Co.*

# ENERGILASS® 16 DAIRY

## PRODUCT DESCRIPTION

A molasses-based supplement formulated for growing and developing heifers and lactating cows.  
Available in 250-lb barrels.

## FEATURES AND BENEFITS

**Molasses and added fat** results in a very high concentration of sugar and energy.

**The high concentration of molasses solids and fat** make for a highly palatable product. The licking action along with saliva produced softens the top 1/4 inch of the block allowing limited consumption. When this thin layer is consumed the animals must wait for the next layer of the block to soften before consuming additional product.

**The manufacturing process reduces moisture to under 4%.** Other typical "big blocks" contain about 25% moisture, adding to the freight and handling costs.

**Does not contain chemicals or binders.** Many "big blocks" use chemicals and binders to harden the block or to control consumption. EnergiLass 16 Dairy does not contain these ingredients which means you are buying only nutritional ingredients.

**Contains RUP** (ruminally undegraded protein) for better utilization of the protein fed to replacement heifers or lactating cows.

**Guaranteed concentrations of vitamins and minerals** for better nutrition.

**The plastic barrel** is convenient to handle and eliminates waste. Even in bad weather, the nutrients are contained in the barrel. When the barrel is almost empty the block is not lost in mud or manure as is often the case with conventional blocks.

## FEEDING DIRECTIONS

Feed free-choice to growing/developing or lactating dairy and beef cattle on all types of rations. Place barrel(s) in a dry location near the animal's source of water, salt, mineral or loafing area. Consumption will vary depending on animal size; quality, source and availability of roughage and/or grains; number of animals per barrel and barrel location.

<u>Species</u>	<u>Animals/ 250 lb Barrel</u>	<u>Intake/hd/day</u>
Dairy Cattle	20 - 30	0.25 - 0.75 lb
Beef Cattle	20 - 30	0.25 - 0.75 lb

DAILY INTAKE VALUES ARE APPROXIMATE. To increase consumption decrease the number of animals per barrel. To reduce consumption increase the number of animals per barrel, or place barrel away from the normal loafing area. PROVIDE CLEAN, FRESH WATER AT ALL TIMES. Provide salt and/or mineral free-choice or mix in the grain ration. To feed EnergiLass, remove the plastic cover before feeding and score surface to encourage initial consumption.

**Do Not Feed To Sheep.**



## ENERGILASS® 16 DAIRY

A supplement for growing dairy and beef heifers, beef cows, steers, and bulls.

### GUARANTEED ANALYSIS

Crude Protein, min .....	16.0%
Crude Fat, min .....	10.0%
Crude Fiber, max .....	2.0%
Acid Detergent Fiber, max .....	3.0%
Calcium (Ca), min .....	0.8%
Calcium (Ca), max .....	1.3%
Phosphorus (P), min .....	0.6%
Magnesium (Mg), min .....	0.7%
Potassium (K), min .....	3.0%
Copper (Cu), min.....	45 ppm
Selenium (Se), min .....	0.3 ppm
Vitamin A, min .....	60,000 IU/lb
Vitamin D3, min .....	6,000 IU/lb
Vitamin E, min .....	60 IU/lb

**11R**

# ENERGILASS® HEIFER

## PRODUCT DESCRIPTION

A free-choice, high-protein, high-energy, molasses-based supplement formulated for growing/developing dairy heifers consuming lower quality pasture, hay, or forage.

## FEATURES AND BENEFITS

**Molasses and added fat** results in a very high level of sugar and energy. This high sugar level and the licking action needed for consumption increase saliva production. This, in turn, may improve the rumen environment which would improve forage digestion.

**The high level of molasses solids and fat** make for a highly palatable product. The licking action, along with saliva produced, softens the top 1/4 inch of the block allowing limited consumption. When this thin layer is consumed, the animals must wait for the next layer of the block to soften before they can consume additional product.

**High-protein content** helps balance diets containing lower quality forages.

**The manufacturing process reduces moisture to less than 4%.** Other typical "big blocks" contain about 25% moisture, adding to the freight and handling costs.

**Does not contain chemical binders.** Many "big blocks" use chemicals and binders to harden the block or to control consumption. This product does not contain these ingredients which means you are buying only nutritional ingredients.

**Guaranteed levels of vitamins and minerals** for better nutrition.

**The plastic barrel** is convenient to handle and eliminates waste. Even in bad weather, the nutrients are contained in the barrel. When the barrel is almost empty the block is not lost in mud or manure as is often the case with conventional blocks.

## FEEDING DIRECTIONS

Free-choice to growing/developing dairy heifers consuming lower quality pasture, hay, or forage. Place barrel(s) in a dry location near the animal's source of water, salt, mineral, or loafing area. Consumption will vary depending on animal size; stage of production; quality, source, and availability of roughage and/or grains; number of animals per barrel and barrel location.

<u>Species</u>	<u>Animals/ 250 lb Barrel</u>	<u>Intake/ hd/day</u>
Cattle	20 - 30	0.5 - 1.5 lb

DAILY INTAKE VALUES ARE APPROXIMATE. To increase consumption decrease the number of animals per barrel. To reduce consumption increase the number of animals per barrel, or place barrels away from the normal loafing area. Provide clean, fresh water at all times, plus free-choice mineral.

**Warning:** Do not feed to sheep, goats, or horses.



## ENERGILASS® HEIFER

A supplement for growing dairy and beef heifers.

### GUARANTEED ANALYSIS

Crude Protein, min	32.0%
(This includes not more than 18.0% equivalent protein from non-protein nitrogen.)	
Crude Fat, min	5.0%
Crude Fiber, max	1.0%
Acid Detergent Fiber, max	2.0%
Calcium (Ca), min	2.75%
Calcium (Ca), max	3.75%
Phosphorus (P), min	1.0%
Magnesium (Mg), min	1.5%
Potassium (K), min	2.5%
Selenium (Se), min	5.0 ppm
Vitamin A, min	118,000 IU/lb
Vitamin D3, min	22,000 IU/lb
Vitamin E, min	120 IU/lb
Warning: This feed should be used only in accordance with directions on this label. Feed to ruminants only.	

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# ENERGILASS® REFRESHER™ 20-1

## PRODUCT DESCRIPTION

A convenient, self-limiting molasses-based supplement formulated for dry cows. It contains RUP (rumen undegraded protein) and is to be fed during the dry period with non-legume hay. This product is a high vitamin, low calcium supplement providing energy and protein in one package.

## FEATURES AND BENEFITS

**Low calcium** concentration aids in the prevention of milk fever when fed with grass hay containing a low concentration of potassium.

**Magnesium** added to meet the nutritional needs of the dry cow and developing fetus and reduce hypomagnesemia at calving.

**No added salt** to help in the prevention of udder edema.

**Vitamin E** supports overall reproductive health and improves milk quality (somatic cell count).

**Highly bio-available source of major and trace minerals** which increases tissue absorption for improved health and reproduction.

**Added selenium, zinc, manganese and copper** from complexed sources for better utilization by the animal, improved colostrum quality, and improved body condition.

**The high concentration of molasses solids and fat**

make a highly palatable product. The licking action softens the top 1/4 inch of the block allowing limited consumption. When this thin layer is consumed the animals must wait for the next layer of the block to soften before they can consume additional product.

**The manufacturing process reduces moisture to under 4%.** Other typical "big blocks" contain about 25% moisture.

**Manufactured without the use of chemicals or binders to harden the block or to control consumption** so you are buying only nutritional ingredients.

**The plastic barrel** is convenient to handle and eliminates waste. Even in bad weather, the nutrients are contained in the barrel. When the barrel is almost empty the block is not lost in mud or manure as is often the case with conventional blocks.

## FEEDING DIRECTIONS

Feed to dairy cows during the dry period with low-calcium forages until two weeks prior to freshening. Place barrel(s) in a dry location near the animal's source of water or loafing area. Dry cows should consume 1 lb per head per day. Consumption will vary depending on animal size; quality, source and availability of forage and the number of animals per barrel.

<u>Species</u>	<u>Animals/ 250 lb Barrel</u>	<u>Intake/hd/day</u>
Dairy - Dry Cow	20 - 30	0.25 - 1.0 lb

DAILY INTAKE VALUES ARE APPROXIMATE. To increase consumption, decrease the number of animals per barrel. To reduce consumption, increase the number of animals per barrel, or place barrels away from the normal loafing area. Provide clean, fresh water at all times. Do not free-choice salt and/or mineral. Provide clean, fresh water at all times. To feed, remove the plastic cover and score the surface to encourage initial consumption.

**Warning:** Do not feed to sheep or horses.

DAIRY (M 5305 4470)



## ENERGILASS® REFRESHER™ 20-1

A supplement for non-lactating dairy cattle.

### GUARANTEED ANALYSIS

Crude Protein, min	20.0%
(This includes not more than 6.0% equivalent crude protein from non-protein nitrogen.)	
Crude Fat, min	2.0%
Crude Fiber, max	2.0%
Acid Detergent Fiber, max	3.0%
Calcium (Ca), min	2.1%
Calcium (Ca), max	2.6%
Phosphorus (P), min	1.5%
Magnesium (Mg), min	3.8%
Potassium (K), min	2.0%
Cobalt (Co), min	15 ppm
Copper (Cu), min	500 ppm
Iron (Fe), min	1,850 ppm
Manganese (Mn), min	1,500 ppm
Selenium (Se), min	7.0 ppm
Zinc (Zn), min	1,700 ppm
Vitamin A, min	100,000 IU/lb
Vitamin D3, min	30,000 IU/lb
Vitamin E, min	1,000 IU/lb

**WARNING:** This feed should be used only in accordance with directions on this label. Feed to ruminants only.

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