



Grade A[®] Hi-Energy 20™



Instantized Calf Milk Replacer

Grade A[®] Hi Energy 20™ is a milk replacer to be fed to herd replacement calves. The dry powder may also be used as a supplement for calves, foals, pigs, lambs, goat kids, dogs & puppies.

IMPORTANT NOTE ON ANIMAL CARE:

It is highly preferred that the newborn calf receives fresh colostrum from its own mother before beginning a milk replacer regimen. Colostrum is the first milking from the cow following birth, providing nutrients, growth factors, and immune globulin proteins that are crucial to the health and growth of the calf. Colostrum must be fed as soon as possible after birth for maximum absorption of maternal antibodies in the newborn. If there is not enough high-quality colostrum available, frozen stored colostrum may be substituted. If no fresh or frozen colostrum is available, **Sav-A-Caf[®] Colostrum Supplement** or **Ultra Start[®] Colostrum Supplement** may be used according to package directions.

FEATURES AND BENEFITS

- Milk proteins and high-quality soy flour for economical gain.
- 22% protein, 20% fat, 1.0% fiber.
- Complete and balanced calf nutrition with best performance in calves over 3 weeks of age.
- Higher fat level appropriate for cooler climates.
- Fortified with balanced levels of key vitamins and minerals recommended by the *National Research Council*.
- Readily usable organic source of selenium.
- Exclusive *Magic Crystal[®]* technology produces milk replacer that mixes easily and stays in suspension.



PRODUCT CODES AND DIMENSIONS

PRODUCT CODE	SIZE & CASE PACK	CASES PER PALLET	UNIT UPC 616368-	CASE UPC 00616368-	UNIT DIMENSIONS	CASE DIMENSIONS
01-7401-0221	4 x 10 lb re-closable bags	42	401023	401030	11"x4"14"	12.5"x18.5"x12.5"
01-7498-0125	25 lb (each) paper bag	80	498063	NA	15.5"x3.5"x31"	NA
01-7498-0150	50 lb (each) paper bag	40	498016	NA	16"x6"x37"	NA

INGREDIENTS

Dried whey, soy flour, animal fat (preserved with BHA, BHT, citric acid & ethoxyquin), dried whey protein concentrate, soy protein isolate, dried whey product, calcium carbonate, dicalcium phosphate, lecithin, sodium silico aluminate, ethoxylated mono-diglycerides, propylene glycol, ferrous sulfate, magnesium sulfate, choline chloride, artificial flavor, vitamin E supplement, maltodextrin, selenium yeast, brewer's dried yeast, vitamin A supplement, zinc sulfate, manganese sulfate, vitamin D₃ supplement, copper sulfate, DL-methionine, ascorbic acid, niacin supplement, calcium pantothenate, menadione sodium bisulfite complex (source of vitamin K activity), biotin, riboflavin supplement, thiamine mononitrate, pyridoxine hydrochloride, vitamin B₁₂ supplement, folic acid, cobalt sulfate.

GUARANTEED ANALYSIS

Crude Protein, minimum.....	22.00%
Crude Fat, minimum.....	20.00%
Crude Fiber, maximum.....	1.00%
Calcium, minimum.....	0.75%
Calcium, maximum.....	1.25%
Phosphorus, minimum.....	0.70%
Vitamin A, minimum.....	30,000 IU/lb
Vitamin D ₃ , minimum.....	10,000 IU/lb
Vitamin E, minimum.....	100 IU/lb

Rev0509



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MIXING DIRECTIONS

Using the plastic cup enclosed in the bag, add the required amount of Grade A powder to 2 quarts of warm (115-120° F) water and mix thoroughly with a wire whisk. The enclosed cup in the 10 lb laminate bag holds approximately 4 ounces dry powder, equal in volume to a standard dry kitchen cup. The cup in the 25 lb and 50 lb paper bags holds 10 ounces of dry powder, equal in volume to 2-3/4 standard kitchen cups. Please see the following table for feeding schedule.

IMPORTANT - Individual animals vary in requirements. Adjust the amount of milk replacer fed according to the calf's body weight and appetite, the environmental conditions, and your own good judgment. In general, animals require more feed during cold weather (ambient temperature below 40° F) to maintain body weight and stay healthy. When in question about nutrition requirements please consult with your animal nutritionist or veterinarian.

FEEDING INSTRUCTIONS FOR USE AS A CALF MILK REPLACER

AGE OF CALF	NUMBER OF COLOSTRUM OR MILK REPLACER FEEDINGS PER DAY	AMOUNT OF COLOSTRUM OR LIQUID MILK REPLACER PER FEEDING
BIRTH TO 24 HOURS	NO MILK REPLACER- FEED ONLY COLOSTRUM. 2 to 3 feedings of colostrum, with the first feeding as soon as possible after birth (within 2 hours preferred), and subsequent feedings 6 to 8 hours apart.	For large breed dairy calves, feed 3 to 4 quarts colostrum per feeding. For beef and small breed dairy calves, feed 2 quarts colostrum per feeding.
DAYS 2 TO 3	MIX LIQUID MILK REPLACER 50:50 WITH COLOSTRUM. 2 feedings per day.	2 to 3 quarts milk replacer mixed with colostrum.
DAY 4 UNTIL WEANING	FEED ONLY LIQUID MILK REPLACER. 2 feedings per day.	2 to 3 quarts milk replacer.

CALF MANAGEMENT TIPS

AT CALVING

Remove dairy calves immediately after birth to a clean, well-bedded area away from the mother. Dry the calf, then saturate the umbilical cord in a 7% iodine solution. Feed colostrum as soon as possible after the calf is born.

COLOSTRUM HANDLING AND FEEDING

Always wash the udder thoroughly before milking and collect colostrum into a clean container. Feed the calf only clean, fresh colostrum that is free from blood, manure, or chunky material. Measure the quality of the colostrum with a colostrometer whenever possible and set aside lower quality colostrum for feeding on days 2 and 3. Stored colostrum must be chilled immediately after collection to prevent bacterial growth. Discard any unused refrigerated colostrum after 1 week, and any unused frozen colostrum after 6 months. Warm cold or frozen colostrum gently in a warm water bath (excessive heat can damage the proteins). Feed colostrum to the calf in a nipple bottle, or use an esophageal tube feeder if the calf refuses to drink.

CALF STARTER AND WATER

Fresh, clean water and high-quality calf starter should be available to the calf free choice at all times beginning on day 2 or 3. Offer small amounts of fresh calf starter daily. Consider top-dressing starter with dry milk replacer powder to encourage consumption (4 ounces or 1 enclosed scoop per pound of dry feed). Feed and water pails should be dumped and scrubbed regularly to prevent bacterial growth - at least 2 to 3 times per week or more often if they become contaminated with urine or manure.

SCOURS

If calves develop scours, continue to feed milk replacer twice daily. Add 1 to 2 feedings of **Sav-A-Caf[®] Electrolytes Plus[™]** in between normal milk replacer feedings to maintain hydration. Consider switching normal milk replacer to medicated **Sav-A-Caf[®] Scours Control 2[™]** for 2 to 3 days to help treat bacterial scours. *Dehydration can be very serious. Contact your veterinarian if scours worsen or do not improve within a few days, or if the calf becomes severely dehydrated.*

WEANING

Most calves can be weaned from milk replacer at 6 to 8 weeks provided they are in good physical condition and are consuming at least 2 pounds of a good quality calf starter each day. Remember that individual animals vary in requirements. Adjust amounts according to your own good judgment, and consult with a veterinarian if you have questions regarding nutritional requirements.

The suggestions listed above are only suggestions and are not to be interpreted as a substitute for having a veterinarian or qualified animal nutritionist provide recommendations. The reader's implementation of the above suggestions are exclusively the reader's decision. Milk Products Inc. makes no warranties, express or implied, regarding these suggestions. The reader agrees that Milk Products Inc. shall have no liability in connection therewith.

Rev0509

FEEDING INSTRUCTIONS FOR USE AS A DRY FEED SUPPLEMENT

IMPORTANT! Grade A Calf Milk Replacer is NOT intended for use as a liquid milk replacer for foals, pigs, lambs, goat kids, or puppies. Use as a dry supplement only. Top-dress or mix the dry Grade A powder into the appropriate nutritionally complete dry feed to provide supplemental nutrients and encourage dry feed consumption during the weaning period. When mixing milk powder into dry feed, be sure to provide fresh feed daily to avoid spoilage.

Calves	Mix 1 enclosed cup (4 ounces) of dry powder into 1 pound of dry starter feed to encourage starter intake prior to weaning.	Dogs & Puppies	As a supplement for puppies, pregnant and lactating bitches, show animals and active adults, mix 2 level tablespoons of dry powder into daily ration (dry or canned food) for each 5 pounds of body weight. Continue as needed to encourage feed consumption and help maintain body condition.
Foals	Mix or top-dress 1 enclosed cup (4 ounces) of dry powder into daily creep feed ration. Gradually increase the amount of powder to 2 cups as the foal's creep feed intake increases, and continue adding powder until weaning.		
Pigs	Mix or top-dress 1 enclosed cup (4 ounces) of dry powder into 1 pound of fresh creep feed, continuing until weaning.	Lambs & Goat Kids	Mix or top-dress 2 ounces (1/2 enclosed cup) into 1 pound of dry starter feed, continuing until weaning.