Bovine BlueLite was extensively tested and evaluated prior to marketing as an aid to help reduce dehydration (shrink) when added to the drinking water intended for cattle and sheep. Within a few months after the Bovine BlueLite introduction, a new use or application was developed by veterinarians and feedlot operators. This new usage or application was developed as a result of the convenience of Bovine BlueLite when used as an oral drench for cattle that were off feed in providing a quick source of oral energy in combination with high levels of electrolyte and vitamin fortification. The pleasant taste of Bovine BlueLite, with its high potassium content, has enabled veterinarians to explore its use as an oral drench following surgical procedures, such as when correcting displaced abomasums and rumenotomies.

Bovine BlueLite is very soluble and goes into solution very quickly when mixed at a ratio of 1 part Bovine BlueLite to 3-4 parts water. This high degree of solubility enables it to be used as a drench in a highly concentrated form such as with large dosing syringes, a tapered bottle, or via stomach tube in 2-5 gallons of water. An additional advantage of Bovine BlueLite is its compatibility with other medications, making it ideal for use as a carrier when medications are administered by drench or stomach tube.

DAIRY COWS
Dairy cows that are off feed and showing signs of rumen atony. One dairy practitioner reported excellent results with Bovine BlueLite following surgical corrections of abomasal displacements. He routinely administers 12-16 ounces of Bovine BlueLite as a drench to dairy cows following these surgical procedures and for high producing dairy cows that are off feed, and showing signs of rumen atony. Other veterinarians have routinely administered Bovine BlueLite in 2-5 gallons of water via stomach tube in cows that are off feed to help stimulate intake and reduce dehydration. Bovine BlueLite can be administered in the drinking water at the suggested label dosage for several days as follow-up therapy.

DRINKING CUP (BOWL) ADMINISTRATION
On occasion, it may be inconvenient or impossible to administer Bovine BlueLite via the drinking water or as a drench. An alternative procedure to facilitate the administration of Bovine BlueLite is the sprinkling or mixing of Bovine BlueLite in the contents of a drinking cup for a stanchioned (tied) animal. Veterinarians have reported excellent and quick intake of Bovine BlueLite by sprinkling 3-4 ounces of Bovine BlueLite into a drinking cup 2-3 times daily. The pleasant taste of Bovine BlueLite facilitates the administration of a readily available source of electrolytes and energy in severely dehydrated cows such as in severe cases of winter dysentery.
FEEDLOT CALVES
Some commercial feedlots have employed Bovine BlueLite when processing calves or as supportive therapy for calves that are pulled and placed in the sick pen. Bovine BlueLite's solubility lends itself to convenient usage or administration with dose syringes, tapered bottles or pressure pumps when larger quantities of water are indicated for the treatment of dehydration. Suggested dosages for Bovine BlueLite when used as a drench or administered to feedlot calves via a stomach tube is 1 to 1-1/2 ounces of Bovine BlueLite per 100 pounds body weight.

OTHER POTENTIAL APPLICATIONS FOR BOVINE BLUELITE
For conditions in the ruminant animal where readily available sources of energy and electrolyte fortification are indicated. Bovine BlueLite provides a convenient way to administer a readily available source of oral energy and electrolytes to ewes suffering from pregnancy disease, in cows with ketosis, or in severe cases of acute malnutrition or hypoglycemia.

The beneficial response to the oral drenching of Bovine BlueLite in stimulating feed intake appears to be due in part to its high level of potassium in combination with other buffered electrolytes and the B complex vitamins. The vitamin A, D and E content of Bovine BlueLite is sufficient to provide at least a minimal 50 percent level of the suggested daily requirement when administered in the water at the suggested label dosage. The response to Bovine BlueLite when added to the drinking water has been very consistent in regard to helping reduce shrink in dehydrated stressed animals. The convenience and high degree of solubility of Bovine BlueLite make it ideal for consideration as a drench (or via stomach tube-pump) when providing support therapy to cattle or sheep.

INDIVIDUAL ANIMAL DOSAGES FOR SEVERE DEHYDRATION
1. Indications for use
   Dairy Cows — supportive rehydration therapy for winter dysentery, following surgical corrections of displaced abomasums, rumenotomies and severe dehydration related to calving or toxic infections. Feedlot and growing calves — calves off feed and pulled into sick pens out of feedlot.
2. Directions for use
   Dairy Cows — 12-16 ounces of Bovine BlueLite powder per head on a daily basis as a drench or in 2-5 gallons of water administered via stomach pump. Feedlot and growing calves — 1 to 1-1/2 ounces of Bovine BlueLite powder per 100 pounds body weight when administered by stomach pump. After initial drench administration, continue Bovine BlueLite in the drinking water at normal dosage rates for 3-5 days.
3. Stock solution drenching
   Mix 2 pounds of Bovine BlueLite in a gallon of stock solution. Dairy cows — administer 32-40 ounces of Bovine BlueLite stock solution per animal. Beef and growing calves — administer 4-6 ounces of Bovine BlueLite stock solution per each 100 pounds body weight.
4. Drinking water dosage for severe dehydration
   Dairy cows — mix 12-16 ounces of Bovine BlueLite powder in 3-5 gallons of drinking water, or 1-2 ounces of Bovine BlueLite powder in the drinking cup 4-6 times a day. Feedlot and growing calves — mix 4-6 ounces of Bovine BlueLite powder in 2-3 gallons of drinking water. After initial loading dose in the drinking water, maintain animals on Bovine BlueLite at normal dosages in the drinking water for an additional 3-5 days.
5. Feed top dress dosage
   One-half cup of Bovine BlueLite per 1,000 pounds of body weight on a daily basis.