

**Use Directions:** LIRA GOLD® Original is formulated for use in bovine feeding programs as a supplementary source of live (viable) microencapsulated beneficial bacteria and targeted enzymes. Top dress LIRA GOLD Original over daily feed or blend in grain concentrate or Total Mixed Ration (TMR) to achieve a usage rate of one ounce (28.35 grams) per head during transition and lactation. Feeding rate may be safely doubled during pre-fresh and early lactation period if desired.

**Enzyme Activity:** Alpha-Amylase (A. oryzae).....180,000 µg starch hydrolyzed/minute/lb  
Protease (A. oryzae).....24,000 µg proteins hydrolyzed/minute/lb  
Hemicellulase (A. niger).....21,650 µg hemicellulose broken down/minute/lb  
Phytase (S. pombe).....1,200 µg phytate hydrolyzed/minute/lb  
Cellulase (T. longibrachiatum, A. oryzae).....9,600 µg cellulose broken down/minute/lb  
Lipase (A. oryzae).....7,200 µg triglycerides hydrolyzed/minute/lb  
Pectinase (A. niger).....4,800 µg pectin broken down/minute/lb  
Beta-Glucanase (A. niger).....2,100 µg beta glucans hydrolyzed/minute/lb

**Ingredients:** Yeast Culture, Corn Distillers Dried Grains with Solubles, Dried Molasses, Active Dry Yeast, Dried Kelp, Biotin, Yucca schidigera Nigler Fermentation Extract, Dried Lactobacillus acidophilus Fermentation Product, Dried Enterococcus faecium Fermentation Product, Dried Bifidobacterium thermophilum Fermentation Product, Dried Bifidobacterium longum Fermentation Product, Dried Bacillus subtilis Fermentation Product, Dried Trichoderma longibrachiatum Fermentation Extract, Dried Schizosaccharomyces pombe Fermentation Extract.

**Guaranteed Analysis:** Total Microbial Count.....807 Billion CFU per pound (50.4 Billion CFU/oz) (Saccharomyces cerevisiae, Lactobacillus acidophilus, Enterococcus faecium, Bifidobacterium thermophilum, Bifidobacterium longum and Bacillus subtilis)

**LIRA GOLD®**

**A premium blend of Saccharomyces cerevisiae to deliver two yeast sources, microencapsulated beneficial bacteria and an extensive package of enzymes designed to help improve health and production.**

**ORIGINAL FORMULA**



A source of live (viable) microencapsulated beneficial bacteria and targeted enzymes for use in bovine feeding programs for growing dairy replacement heifers and beef feeder cattle - weaning through breeding age. With a research-proven appetite stimulant, LIRA GOLD® Gold-N-Grow helps to increase feed intake, improve digestibility of feedstuffs, increase average daily gains and improve feed efficiency in young stock.

- Fed at the rate of 1/2 oz/head/day. Available in 10 lb pails, 10 lb and 40 lb bags.
- Fed at the rate of 1/2 oz/head/day. Available in 50 lb bags.

**LIRA BASIC**

LIRA Basic provides the most economical way to supply the benefits of active dry yeast, microencapsulated beneficial bacteria and targeted enzymes in a one ounce per cow per day feeding. Great for dry cow and beef feeding programs.

- Fed at the rate of 1/2 to 1 oz/head/day. Available in 50 lb bags.
- Fed at the rate of 3/4 oz/head/day. Available in 50 lb bags.

**E-X-T**

All the benefits of LIRA GOLD® Original in a more concentrated form plus a unique appetite stimulant. Fed E-X-T when increased DMI (Dry Matter Intake) is desired. Provide adequate bunk space of 2 linear feet per cow and do not limit feed. Desired results may be reduced when over-crowding exceeds 10%.

LIRA GOLD® E-X-T helps deliver improved performance during times of heat stress, decreased dry matter intake and early lactation weight loss due to negative energy balance.

LIRA GOLD® HydroLyte COW is a nutritional and electrolyte supplement that is specifically designed to provide hydration and key nutrients in cows during times of increased stress. Specially selected, highly bioavailable ingredients supplement animals when dehydration, energy imbalances and metabolic disorders due to cold/heat stress cause decreased milk production, increased health issues and lower profitability.

- Fed at the rate of 1 oz/head/day. Available in 40 lb bags.
- Fed at the rate of 1 oz/head/day. Available in 12.5 lb and 50 lb bags.

**LIRA GOLD® TN+**

LIRA GOLD® TN+ contains the same guaranteed active ingredients as LIRA GOLD Original with proteinated minerals, modified aluminosilicates, fermentation components and mold inhibitors. This comprehensive, three prong approach is designed to help target molds, mold growth and mycotoxins that are present in your dairy rations. Feed LIRA GOLD TN+ as a critical part of a comprehensive feed and forage management program when molds and mycotoxins negatively impact herd health and performance.

- Fed at the rate of 2-4 grams/head/day. Available in 5 kg foil, re-closable pouches.
- Fed at the rate of 2-4 grams/head/day. Available in 5 kg foil, re-closable pouches.

## Nutritional Solutions for Health And Productivity

### LIRA GOLD® Silage Inoculants

Unique microencapsulated formula of bacteria and defined enzymes deliver a broad range, multi-prong approach to delivering high quality forages. They contain researched and carefully selected microorganisms that stimulate fermentation faster at lower temperatures, effectively protecting more of the essential nutrients, improving the valuable nutritional quality of preserved forages. The bottom line is that LIRA GOLD® Silage Inoculants' innovative scientific approach is designed to lock in forage quality quickly to maximize the nutrient value for your herd.

- A multi-use formula for all types of forages, including corn/sorghum, high moisture corn, small grain silage and haylage (grass & alfalfa).
- LIRA GOLD® Silage Inoculant 50T Dry**  
Usage Rate: 1 lb per ton of silage  
Available in: 50 lb bags
  - LIRA GOLD® Silage Inoculant 50T WS or 100T WS**  
Usage Rate: 4.54 grams per ton of silage  
Available in: 8 oz packets (50 ton packet)  
1 lb packets (100 ton packet)
  - LIRA GOLD® Silage Inoculant 250T WS**  
Usage Rate: 1 gram per ton of silage  
Available in: 250 gram packets
  - LIRA GOLD® Silage Inoculant 500T WS**  
Usage Rate: 1 gram per ton of silage  
Available in: 500 gram packets
  - LIRA GOLD® Organic Silage Inoculant 100T WS**  
Usage Rate: 1 quart per ton of silage  
Available in: 1 lb packets (100 ton packet)
  - LIRA GOLD® Organic Silage Inoculant 50T Dry**  
Usage Rate: 1 lb per ton of silage  
Available in: 50 lb bags



**LIRA GOLD**

NUTRITIONAL SOLUTIONS FOR HEALTH & PRODUCTIVITY

**LIRA GOLD® Products are available from:**

**LIRA GOLD®**

A division of The Daniel Baum Company  
1383 Arcadia Road, Suite 102  
Lancaster, PA 17601  
800-992-3147 • info@danielbaumco.com

**LIRA GOLD**

NUTRITIONAL SOLUTIONS FOR HEALTH & PRODUCTIVITY

**Proprietary Dairy Supplements Specifically Designed For:**

- Feed Utilization and DMI
- Milk Production and Component Yield
- Digestive Health & Immune Support
- Fresh Cow & Transition Management
- Heifer Growth & Performance
- Calf Health & Productivity





# LIRA GOLD® TRANSITION COW MANAGEMENT



## LIRA MicroGold™ Capsules for Adult Cattle

Manufactured with 100% porcine gelatin capsules. Available in 40 count canisters or 128 count boxes.

**LIRA MicroGold™ Plus** - a premium microbial supplement capsule with active dry cell yeast, bacteria and enzymes. Provide as a nutritional support during times of sluggish appetite, heat stress or stress during calving, shipping or feed changes. For best results use in conjunction with LIRA MicroGold VTM capsules.

**Feeding Rate:** one 15 g capsule per head, one to two times per day for up to three days.

**LIRA MicroGold™ VTM** - a premium vitamin-trace mineral nutritional supplement capsule with NiaShure™ niacin and mineral proteinates. Feed as a nutritional support during times of sluggish appetite, heat stress, or stress during calving, shipping, feed changes or when vitamin and trace mineral supplementation is indicated. For best results use in conjunction with LIRA MicroGold Plus capsules.

**Feeding Rate:** one 21 g capsule per head, one to two times per day for up to three days.

**LIRA MicroGold™ D-Cal 710** - a premium vitamin D3 and calcium supplement capsule. Feed as a nutritional support at calving to help balance blood calcium levels or when vitamin D3 and calcium supplementation is warranted.

**Feeding Rate:** three 30 g capsules per cow at calving time, one to two times per day up to three days.

**LIRA MicroGold™ NiaStart** - a premium niacin and microencapsulated beneficial bacteria supplement capsule with NiaShure™ niacin. Provide as a nutritional support during times of sluggish appetite, heat stress or stress during calving, shipping, feed changes or when niacin and microencapsulated beneficial bacteria supplementation is indicated.

**Feeding Rate:** one or two 13.5 g capsules per head per day for up to three consecutive days.

**LIRA MicroGold™ CMPK** - a premium calcium, magnesium, phosphorus, potassium and vitamin D3 supplement capsule. Feed as a nutritional support at calving when calcium, magnesium, phosphorus, potassium or vitamin D3 is warranted.

**Feeding Rate:** one to three 34 g capsules per head at calving time, one to two times per day, for up to three days.

## LIRA Paste/Gel Products



**LIRA GOLD® Bovine Gel (300 g cartridge)** - A source of live (viable), naturally occurring, host-specific microorganisms, targeted enzymes and strategic proteins in a gel form. Use LIRA GOLD Bovine Gel to support normal rumen function and populate beneficial bacteria during transition, stress and antibiotic therapy. Total Microbial Count: 1.5 Billion CFU/g (Saccharomyces cerevisiae, Enterococcus faecium, Lactobacillus acidophilus, Bacillus subtilis, Bifidobacterium thermophilum and Bifidobacterium longum)

**Feeding Rate:** 21-28 g as needed, orally. (also available as LIRA GOLD Microbial Gel 80 g for younger/smaller animals)

**LIRA GOLD® CMPK Gel Plus (400 g cartridge)** - A premium combination of calcium, magnesium, phosphorous and potassium with micro-encapsulated beneficial bacteria. Designed to deliver key nutrients and provide digestive support to help fresh cows during post-calving challenges.

**Feeding Rate:** administer one tube at first sign of freshening or as soon as possible after freshening. Repeat 6-12 hours after freshening or as needed at 12 hour intervals.

**LIRA GOLD® Calcium Paste (330 g cartridge)** - A gluconeogenic source of calcium, essential minerals and microencapsulated beneficial bacteria in a convenient paste tube. LIRA GOLD Calcium Paste contains propylene glycol and three forms of propionate to enhance energy balance and calcium levels in fresh cows.

**Feeding Rate:** administer one tube as soon as possible after calving. Repeat as needed. Do not administer more than 3 doses in any 24 hour period.

## LIRA GOLD® Fresh Cow Drenches

### LIRA GOLD® Original Fresh Cow Drench (3.5 lb packs, 50 lb bags)

Provides a gluconeogenic source of calcium to help support energy balance and calcium levels in fresh cows while delivering a high dose of microencapsulated beneficial bacteria, yeast and targeted enzymes. Designed to provide key nutrients, hydration and digestible fiber to provide added supplementation in fresh cows challenged with post-calving metabolic issues. Includes alfalfa as an additional source of digestible fiber to support normal rumen bacteria function.



### LIRA Paramount™ Drenches (11 lb and 50 lb foil laminate bags)

**Paramount™ FCD:** A premium gluconeogenic source of calcium and essential minerals for fresh cows. Paramount FCD should be an integral part of a fresh cow protocol to provide essential minerals, electrolytes and propionates to supplement cows negatively impacted by metabolic disorders post calving.

**Feeding Rate:** thoroughly blend 1 to 1-1/2 pounds of Paramount FCD with a minimum of 5 gallons of lukewarm, clear, fresh water and administer via an esophageal feeding system.

**Paramount™ Boost:** An add-in pack of microencapsulated beneficial bacteria, vitamins and additional essential minerals for fresh cows. Best when used as a complement to Paramount FCD when additional vitamins and microencapsulated beneficial bacteria are indicated.

**Feeding Rate:** thoroughly blend 1/2 to 1 pound of Paramount Boost with a minimum of 5 gallons of lukewarm, clear, fresh water and administer via an esophageal feeding system.

All LIRA GOLD® Products are manufactured with the highest quality ingredients. They contain no medication and require no withdrawal period.

NiaShure™ Niacin is a trademark of Balchem Corporation, New Hampton, NY

# LIRA GOLD® CALF PRODUCTS



## LIRA NeoGold Pecti-MOS (50 count canisters)

A premium capsule for administration during times of digestive upset containing 100% porcine gelatin, soluble and insoluble fiber, beta-glucans, MOS and Vitamins A, D3 and E. Feed as a nutritional support during times of stress during shipping, diarrhea or upset, or when fat soluble vitamin supplementation is warranted.

**Feeding Rate:** cattle under 500 lb administer two to four capsules per head one time per day for up to three days.



## LIRA GOLD® HydroLyte Calf™ (12.5 lb pouches, 50 lb foil bags)

A premium source of electrolytes, essential minerals, protein and energy, that should be part of any routine calf feeding protocol to encourage water consumption and maintain hydration for calves experiencing daily heat stress.

**Feeding Rate:** thoroughly blend 57 g with two quarts of fresh, clear water and provide as needed.



## LIRA HydroGold Calf

(1000 gm foil packs, 5 kg pouches, 50 lb foil bags) A premium source of electrolytes, essential minerals, protein and energy, formulated to supplement the critical dietary needs of stressed or moderately dehydrated calves.

**Feeding Rate:** thoroughly blend 50 g with one quart of fresh, clear water and provide as needed.



## LIRA GOLD® Vita Gold

(500 ml bottles with 20 cc syringe) A “micronized” form of fat-soluble vitamins and specific water-soluble vitamins when short-term vitamin supplementation is indicated. It is manufactured to use the same mode of action as the small diameter, emulsified fats in maternal milk, providing a faster and more efficient administration of critical vitamins that greatly benefit the newborn calf. Equally effective for cows!

**Feeding Rate:** administer 5 ml orally on back of tongue. Repeat as necessary.



## LIRA GOLD® Calf Command (4 and 25 lb pails, 40 lb bags)

An economical way to supply microencapsulated beneficial bacteria, enzymes, FOS, MOS and strategic proteins; blended into a water dispersible package that provides a cost effective solution matched to today's feeding practices.

**Feeding Rate:** 10 grams per day for 10 to 14 days; thereafter, 5 grams per day until weaning.



## LIRA GOLD® Calf Powder (4, 20 and 40 lb pails, 40 lb bags)

A supplemental electrolyte blend with added microencapsulated beneficial bacteria and targeted enzymes for calves. It is further enhanced with our strategic protein package designed to deliver added support during the presence of disease-causing pathogens in the digestive tract. Designed to help maintain normal GI health to help produce healthy, fast growing calves. Can be mixed in milk or milk replacer, or blended with fresh water and offered between daily feedings of milk or milk replacer.

**Feeding Rate:** 10 grams twice daily.



## LIRA Pecti-Launch CP (11.3 lb pouches, 50 lb bags)

A novel formulation of oligosaccharides (FOS and MOS), essential minerals, electrolytes, soluble and insoluble, fiber combined with dried egg proteins that delivers a multi-faceted approach to help maintain normal GI health, supplies electrolytes to help maintain normal fluid balance and support digestive system during times of stress in young calves.

**Feeding Rate:** mix 1 to 4 oz with 2 quarts warm water, milk or milk replacer, and feed 1 to 2 times daily.

## LIRA GOLD® Golden Day 1 Oral Calf Paste (30 gram oral syringes)

A convenient oral paste for calves that provides a source of live (viable) naturally occurring microorganisms to support digestive health and beneficial microorganism population of the digestive tract. Each 30 gram syringe contains a full 5 ml dose of our popular Vita Gold “micronized” vitamin supplement. The inclusion of selenium yeast helps support a healthy, functioning immune system and the other ingredients help maintain normal digestive health.

**Feeding Rate:** for newborn calves, administer one full syringe after first colostrum. Repeat dosage if necessary within 24 hours.



## LIRA GOLD® 2-Day-70 Oral Calf Paste (30 gram oral syringes)

A convenient oral paste for calves to support during pre-weaning environmental stress. Inclusion of L-glutamine and L-threonine helps support normal GI health and digestion while novel yeast cell wall extracts and Saccharomyces cerevisiae spp. Boulardii supports healthy immune function.

**Feeding Rate:** for calves from two days of age through weaning, administer one full syringe during periods of digestive stress. Repeat dosage if necessary within 24 hours.

\*Also available in capsule form. 5.2 gram caps in 50 ct. canisters

## LIRA GOLD® Electrolyte Paste (35 gram oral syringes)

An electrolyte supplement formulated for times of stress due to scours, heat stress or other calf-hood diseases. In addition to the major electrolytes sodium, potassium, magnesium and calcium, we have included a combination of zinc, copper, cobalt and manganese to guard against the deficiency of these nutrients due to dehydration.

**Feeding Rate:** 1/2 to one full 35 gram syringe as needed.



## LIRA GOLD® Microbial Gel (80 gram multi-dose oral syringes)

A multipurpose microbial gel provided in a convenient and compact package. Provides a source of live (viable) naturally occurring microorganisms to support digestive function and GI health during times of environmental stress.

**Feeding Rate:** body weight up to 500 lb - 5 cc, 500-800 lb - 10cc, 800 lb and up - 15 cc.



## LIRA CharGel Calf Paste (60 gram oral syringes)

A premium charcoal-based gel with electrolytes for use during digestive upset. Specific formulation designed to support GI health and normal healthy stools, during times of environmental stress.

**Feeding Rate:** dispense contents of entire tube on the back of tongue, dispensing contents slowly allowing animal to swallow.



All LIRA GOLD® Products are manufactured with the highest quality ingredients. They contain no medication and require no withdrawal period.