



LIRA GOLD® TN+ Plus

Direct-Fed Microbials, Digestive Enzymes,
Proteinated Minerals and Live Yeast
for Use in Dairy Cattle Feeding Programs



40 lb. bags

Feeding rate: ½ to 1 ounce per cow per day

- ◆ **Yeast** – Yeast culture and Active dry cell yeast from:
Saccharomyces cerevisiae
- ◆ **Bacteria** – Host specific digestive bacteria (5):
Lactobacillus acidophilus, Enterococcus faecium, Bifidobacterium thermophilum, Bifidobacterium longum & Bacillus subtilis
- ◆ **Enzymes** – A full complement of digestive enzymes (8) specifically formulated for cattle and derived from Aspergillus oryzae & Aspergillus niger:
Amylase, Protease, Hemicellulase, Phytase, Cellulase, Lipase, Pectinase, β-Glucanase
- ◆ **Proteinated trace minerals** – Zn, Mn, Cu, & Co
- ◆ **Selenium yeast** – Se
- ◆ **Modified hydrated aluminosilicates** – “zeolites” – toxin binders
- ◆ **Fermentation components & Mold inhibitors**

LIRA GOLD® TN+ is designed to strategically target multiple mycotoxins in forages of questionable quality and should be part of a comprehensive strategy to evaluate and manage feeding and forage programs to control molds and mycotoxins.

Molds and Mycotoxins have detrimental consequences on livestock:

- Energy and protein loss (5-10%) in forage
- Irritates the digestive tract, depresses nutrient intake
- depresses reproduction performance
- Partial ineffectiveness of drugs and vaccines
- Inconsistent and lower dry matter intake
- Sub-clinical and/or acute health disorders
- Compromised milk production
- Impaired immune function, increased susceptibility

Reduce the damaging effects and economic losses of mycotoxins by following an integrated approach.

- Chop forage at proper maturity & moisture level.
- Use a bacterial silage inoculant.
- Rapidly fill and adequately pack silage in order to eliminate oxygen.
- Check forage for mycotoxins at a reputable lab.
- Include **LIRA GOLD® TN+** in the ration.

One ounce of TN+ supplies the following proteinated trace minerals:

	<u>label guarantee</u>	<u>per one ounce feeding</u>
Zinc (Zn)	2,120 ppm	60 mg
Manganese (Mn)	2,120 ppm	60 mg
Copper (Cu)	265 ppm	7.5 mg
Cobalt (Co).....	10.6 ppm	306 mcg
Selenium (yeast)	35.3 ppm	1 mg

For complete label copy see reverse side

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Guaranteed Minimum 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)

Enzyme Activity:

Alpha-Amylase (Aspergillus oryzae).....180,000 µg starch hydrolyzed/minute/pound
 Protease (Aspergillus oryzae).....24,000 µg proteins hydrolyzed/minute/pound
 Hemicellulase (Aspergillus niger)..... 21,600 µg hemicellulose broken down/minute/pound
 Phytase (Schizosaccharomyces pombe) 1,200 µg phytate hydrolyzed/minute/pound
 Cellulase (Trichoderma longibrachiatum, Aspergillus oryzae) 9,600 µg cellulose broken down/minute/pound
 Lipase (Aspergillus oryzae) 7,200 µg triglycerides hydrolyzed/minute/pound
 Pectinase (Aspergillus niger).....4,600 µg pectin broken down/minute/pound
 Beta-Glucanase (Aspergillus niger).....2,100 µg beta-glucans hydrolyzed/minute/pound

*Colony Forming Unit

Trace Minerals:

Copper (Cu).....265 ppm
 Selenium (Se).....35.3 ppm
 (from Selenium Yeast)
 Zinc (Zn)2,120 ppm
 Manganese (Mn)2,120 ppm
 Cobalt (Co)10.6 ppm

Ingredients: Yeast Culture, Brewers Dried Yeast, Bentonite, Hydrated Sodium Aluminosilicate, Active Dry Yeast, Rice Hulls, Corn Distillers Dried Grains with Solubles, Dextrose, Selenium Yeast, Zinc Proteinate, Manganese Proteinate, Yucca schidigera Extract, Dried Aspergillus niger Fermentation Extract, Dried Aspergillus oryzae Fermentation Extract, Copper Proteinate, Dried Lactobacillus acidophilus Fermentation Product, Dried Enterococcus faecium Fermentation Product, Dried Bifidobacterium thermophilum Fermentation Product, Dried Bifidobacterium longum Fermentation Product, Dried Trichoderma longibrachiatum Fermentation Extract, Cobalt Proteinate, Dried Schizosaccharomyces pombe Fermentation Soluble, Dried Bacillus subtilis Fermentation Product, Natural & Artificial Flavor, Calcium Propionate (preservative), Ethoxyquin (preservative), BHA (preservative).

USE DIRECTIONS: LIRA GOLD® TN+ is a source of direct-fed microbials, live yeast, yeast fermentation byproducts, proteinated minerals and digestive enzymes which can hydrolyze feed stuffs. Top dress LIRA GOLD TN+ over daily feed or blend into grain concentrate or Total Mixed Ration (TMR) to achieve the following levels:

- Dairy cows in transition and first half lactation - one ounce per head per day**.
- Late lactation, dry cows and beef cattle - one-half ounce per head per day**.

**One and one-half to two ounces per head per day may be safely fed when feeding forages of questionable quality or forages known to contain mycotoxins. Feeding LIRA GOLD TN+ should be part of a comprehensive strategy to evaluate and manage feeding and forage programs to control molds and mycotoxins.

Blend in Concentrates and TMRs according to the chart.

Blending LIRA GOLD TN+ with Feed Concentrate								
Pounds of Feed Concentrate consumed per head daily:	6	8	10	12	15	20	25	30
Transition and First Half Lactation for Dairy Cows								
Pounds of LIRA GOLD TN+ per ton of Feed Concentrate (1 oz/head daily)	20.9	15.7	12.5	10.5	8.4	6.3	5	4.2
Second Half Lactation, Dry Cows and Beef Cattle								
Pounds of LIRA GOLD TN+ per ton of Feed Concentrate (1/2 oz/head daily)	10.5	7.9	6.3	5.3	4.2	3.2	2.5	2.1
Blending LIRA GOLD TN+ in Total Mixed Rations (TMR)								
Number of Cows Fed per TMR Batch:	50	100	150	200	250	300	500	
Transition and First Half Lactation for Dairy Cows								
Pounds of LIRA GOLD TN+ per TMR Batch (1 oz/head daily)	3.2	6.3	9.4	12.5	15.7	18.8	31.3	
Second Half Lactation, Dry Cows and Beef Cattle								
Pounds of LIRA GOLD TN+ per TMR Batch (1/2 oz/head daily)	1.6	3.2	4.7	6.3	7.9	9.4	15.7	

For more specific instructions, or instructions pertaining to uses other than indicated above, please consult your LIRA GOLD sales representative. Caution: Follow label directions. Feeding added selenium at levels in excess of 0.3 ppm in the total diet is prohibited. Contains copper; do not feed to sheep.

FOR ANIMAL USE ONLY • STORE IN A COOL, DRY PLACE OUT OF REACH OF CHILDREN

Manufactured for:



A division of Daniel Baum Company, Inc.
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Net Weight 40 lb (18.14 kg)

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Lot No.