

# MicroDirect®



## Enzymes and Direct Fed Microbials for Ruminant Performance

MicroDirect® is a multifunctional, microencapsulated bacteria and enzyme additive formulated to aid in the digestion of certain fibers, proteins and specific starches found in soy and corn diets. This direct fed microbial is designed for lactating and dry cows, to help improve performance and optimize health across a wide variety of diets, feeding situations, and environments.

### Guaranteed Analysis

Lactic Acid Producing Bacteria .....	4.79 x 10 <sup>9</sup> CFU/lb ( <i>Lactobacillus acidophilus</i> , <i>Bifidobacterium thermophilum</i> , <i>Bifidobacterium longum</i> , <i>Enterococcus faecium</i> )
Saccharomyces cerevisiae (Live Yeast).....	7.98 x 10 <sup>12</sup> CFU/lb
Amylase ( <i>Aspergillus oryzae</i> ).....	304,479 mg starch liberated/minute/lb
Protease ( <i>Aspergillus oryzae</i> ).....	45,387 mg amino acids liberated/minute/lb
Hemicellulase ( <i>Aspergillus niger</i> ) .....	32,333 mg hemicellulose breakdown/minute/lb
Cellulase ( <i>Aspergillus oryzae</i> ).....	27,016 mg cellulose breakdown/minute/lb
Lipase ( <i>Aspergillus oryzae</i> ) .....	12,179 mg triglycerides liberated/minute/lb
Pectinase ( <i>Aspergillus oryzae</i> ).....	8,119 mg pectin liberated/minute/lb
Beta-glucanase ( <i>Aspergillus niger</i> ) .....	4,491 mg beta-glucans liberated/minute/lb

### Ingredients

Ground limestone, Rice hulls, Dried corn distillers grains, Saccharomyces cerevisiae, Yucca Schidigera, Betaine, Dried *Aspergillus oryzae* fermentation extract, Dried *Aspergillus niger* fermentation extract, Yeast culture, and Dried fermentation products of: *Lactobacillus acidophilus*, *Bifidobacterium thermophilum*, *Bifidobacterium longum*, *Enterococcus faecium* and *Bacillus subtilis*

### Feeding Directions

Blend into dairy cow rations, premixes, mineral mix or top dress at the following rates:

- Dry cows: ½ oz per head per day
- Transition Cows: 1 ½ oz per head per day
- Lactating Cows: 1-3 weeks - 1 ½ oz per head per day  
4-8 weeks - 1 oz per head per day

Manufactured for:



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**Net Weight 50 lb (22.73 kg)**

Lot #: