

# Select BioCycle™



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Updated: August 2017

## A NEW APPROACH TO DIRECT-FED MICROBIALS

Many dairy supplements belong to a product class called direct-fed microbials (DFM). Such products assist animals by repopulating stressed digestive systems. Typically, they contain supplemental yeast and naturally occurring freeze-dried microorganisms. Most commercial products have some positive effect, however shelf life and feedstuff compatibility have been challenges facing these products. Often conventional DFMs are full potency in the manufacturer's package but not able to survive when mixed in the ration for extended periods.

Select BioCycle™ is recommended when performance improvements are needed in reproduction, and overall herd health. Select BioCycle is not appropriate when mold-challenged feeds are the major problem.

One of the key factors making Select BioCycle more effective is the presence of L-form bacteria. The L-form bacteria found in the BioCycle line, are unequaled among DFM products. Stripped of their cell walls, they are much more active than their less-developed relatives. Because they are dormant until consumed, L-form bacteria have an excellent shelf life and survive when mixed with high mineral feed ingredients; allowing them to reach the lower digestive system unharmed.

Select BioCycle contains two separate L-form bacteria, enhancing the function and population of the microflora in the lower gut. Select BioCycle also contains both yeast culture and live cell yeast that produce a broad range of metabolites including B-vitamins, a broad based enzyme package to enhance nutrient digestions, specialized proteins for the unexpected challenges, microbial sugars for nourishment of other gut microbes and potassium iodide to enhance metabolism.

**USE DIRECTIONS** Mix Select BioCycle into dairy feeds at a rate of one-half (½) ounce (14g) per head per day.

**PACKAGING** 50 lb. box. (#9091)

**STABILITY** Stable for two years. Store in cool, dry place.

**INGREDIENTS** Calcium Carbonate, Yeast Culture, Montmorillonite Clay, Potassium iodide, Silicon Dioxide, Dried egg product, *Saccharomyces cerevisiae* (Active dry yeast), Dried *Aspergillus oryzae* fermentation extract, Dried *Bacillus subtilis* fermentation product, Sugars, Lactic Acid, Citric Acid, Acetic Acid, Benzoic Acid.

**GUARANTEED ANALYSIS**  
(per 1/2 ounce dose)

Protease ( <i>Aspergillus oryzae</i> ).....	3,500 ug protein hydrolyzed/minute/0.5oz
Hemicellulase ( <i>Trichoderma reesei</i> ).....	1,500 ug of hemicellulose broken-down/minute/0.5oz
Amylase ( <i>Aspergillus oryzae</i> ).....	750 ug starch hydrolyzed/minute/0.5oz
Cellulase ( <i>Aspergillus reesei</i> ).....	625 ug cellulose broken-down/minute/0.5oz
<i>Bacillus subtilis</i> (Min) .....	50 x 10 <sup>6</sup> cfu/g

# Select BioCycle™ Concentrate



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### USE DIRECTIONS

Mix Select BioCycle Concentrate into dairy feeds at a rate of five grams (5g) per head per day.

### PACKAGING

50 lb. box (#9051)

### STABILITY

Stable for two years. Store in cool, dry place.

### INGREDIENTS

Yeast Culture, Calcium Carbonate, Montmorillonite Clay, *Saccharomyces cerevisiae* (Active dry yeast), Potassium iodide, Silicon Dioxide, Dried egg product, Dried *Bacillus subtilis* fermentation product, Dried *Aspergillus oryzae* fermentation extract, Sugars, Lactic Acid, Citric Acid, Acetic Acid, Benzoic Acid.

### GUARANTEED ANALYSIS

(per 5 gram dose)

Protease (*Aspergillus oryzae*).....3,500 ug protein hydrolyzed/minute/5gm  
 Hemicellulase (*Trichoderma reesei*).....1,500 ug of hemicellulose broken-down/minute/5gm  
 Amylase (*Aspergillus oryzae*).....750 ug starch hydrolyzed/minute/5gm  
 Cellulase (*Aspergillus reesei*).....625 ug cellulose broken-down/minute/5gm  
*Bacillus subtilis* (Min) .....50 x 10<sup>6</sup> cfu/g

