

Zymes

Earth Song Ranch “Zyme” Products

Earth Song Ranch’s “Zyme” Products are rich, specie specific concentrated blends of probiotics, beneficial bacteria (microbial's), digestive enzymes, amino acids and organic minerals. Some of our blends have specially selected herbs, for either age, gender, or are formula specific for certain disorders. These formulas, first of all, are designed to supply and deliver direct fed microbial's to the gastro intestinal tract so that the animal will absorb and utilize more of the nutrients found in its feed–stuffs.

The most common direct fed microbial products are *Lactobacillus Acidophilus* and *Lactobacillus lactis*, or lactic acid producing bacteria, so named because of their ability to produce lactic acid; *Enterococcus faecium*, and yeast fermentation products including *Saccharomyces cervisiansas* and *Aspergillus oryzae*. Yeasts are one celled organisms or fungi that reproduce by “budding” or producing daughter cells.

There are three categories of bacteria: beneficial, harmful and neutral. For optimal health all animals need a balance of these bacteria to keep each in check. The animal remains healthy as long as the balance of “good & bad” bacteria remains constant and the gastro–intestinal tract is stable. When the balance is upset, your animal may eat, but he may not be able to digest properly or assimilate the nutrients he needs from his food. When this occurs, it may begin to show up as a dull coat, allergic skin conditions, inability to maintain weight, laminitis, colic (or colic like symptoms), or other medical conditions including diarrhea or constipation.

The word probiotic is derived from the Greek word “pro” meaning “for” and “biosis” meaning “life”, that is the opposite of “antibiotic”. Probiotic and digestive enzyme supplementation is a way of encouraging the proliferation of certain “good” (beneficial) bacteria to work in concert with the digestive process. This microbial balancing act can be accomplished by feeding beneficial bacteria and digestive enzymes, daily, where together they can create an ideal environment for these microorganisms to flourish.

Some owners who may be using common probiotics (in the human forms such as yogurt, kefir, or liquid acidophilus) and experiencing the benefits, are beginning to understand the value of these nutritional supplements for their animal’s health, well being and longevity. Although there still seems to be a general lack of understanding as to the actions of these substances, as well as the reasons for their use in humans, horses, cats and dogs, the problem seems to be...there is little written information on the benefits of probiotics for horses, dogs, and cats. For these reasons, much information/miss–information is being passed on by word of mouth.

The value of probiotics, coupled with digestive enzymes and their use, seems to be a little more commonplace in equine, canine and feline diets. Not many owners understand that there are very few products on the market that contain “guaranteed” beneficial bacterial/microbial counts which could give their animals the most consistent and highest amounts of the beneficial bacteria per serving.

Probiotics provide a way of limiting the number of harmful bacteria and pathogens in the digestive system, prevent parasitic infestations, also limiting the effects of the harmful bacteria on overall health and well-being. Digestive enzymes and probiotics also assist to absorb and utilize more of the nutrition made available through the usual daily feed rations.

The “Zyme” lines contain a specific blend of beneficial bacteria, yeast cultures, and specie specific digestive enzymes, with organic minerals and anti-oxidants, formulated to maximize intestinal flora and digestive efficiency. They are pleasant tasting specie specific powders with a guaranteed beneficial microbial count, designed to be used as a daily topping or dressing. The Zyme’s are meant to complement your animals feed ration, not replace it, to assist them in the absorption and utilization of what you already feed.

All animals benefit from the mineral fortification of feeds. “Minerals are the requirement of all metabolic processes in the animal’s body and the deficiency of some minerals can lead to poor performance. Minerals in feed supplements are available in both organic and inorganic forms. Inorganic forms of minerals consist of sulfates, oxides, and carbonates, these forms are less expensive and most commonly added; however, high concentrations of inorganic minerals can interact with other feed ingredients, thereby decreasing their bio-availability and bioactivity. Organic forms of minerals on the other hand are usually linked to an amino acid carrier where they are “escorted” across the stomach of the digestive tract with greater efficiency (Feedstuffs 1993).” Earth Song Ranch formulas contain only organic minerals that are more bio-available and bioactive.

"Whatever the nutritional potential of a food, its contribution is nonexistent if it does not pass the test of absorption. Those nutrients that have not been transferred through the intestinal mucosal cell to enter the circulation have, for all nutritional intent and purpose, never been eaten. The variety of nutrients from the organism's environment that have been made available by absorption must be transported through the circulatory system to the aqueous microenvironment of the cells. There, they serve their ultimate purpose: participation in the metabolic activities in the cells on which the life of the total organism depends."

(Nutrition: An Integrated Approach p. 283)

“The Equine Zymes”

Equine “Zymes” are all natural nutritional supplements formulated to first promote feed efficiency and control parasites by increasing microbial populations and microbial activity in the horse’s hind gut. Second, if they are specific blends then they have specially selected herbs for certain disorders or age groups. Thirdly they increase the nutrient uptake from the feed, allowing the horse to digest more dry matter and fiber than un-supplemented horses. The Herbal Zyme formulas were formulated to complement any feed program, to provide herbs that support and nourish horses. Specific blends were formulated and designed for Mares, Foals and Seniors, etc. with some of the products being for all breeds, genders and disciplines, i.e. the equine athlete, backyard horse or breeding stock all have certain nutritional requirements in order to support their health. All benefit from a well balanced probiotic/digestive enzyme added to their daily feed ration because they all share common “stress” factors that are known to cause digestive disturbances.

The most common sources of digestive disturbances in horses are caused by stress, some of which may be brought on by: sudden changes, unseasonable weather conditions, moving, competition, training, psychological stress of travel & showing, worming, parasitic infestations, vaccines, viruses & antibiotics; breeding, mares in foal, foaling, and weaning both for mare and foal. Unfortunately, the

micro flora/microbial balance in a horse can be upset much faster than it can be restored. The effect may not show up immediately, but a horse's beneficial intestinal bacteria can be destroyed or depleted and the pH of this environment can be altered during these times.

Stress can also be created by alterations of weather, environment, feeds and water. Without the beneficial intestinal bacteria, food passes through the system, is not “fermented” in the way it was intended, food therefore remains undigested. This undigested food passing through the gastro-intestinal tract may then lead to situations such as colic or colic like symptoms, bloat, founder or increase the possibility of developing feed related allergic conditions.

Equine Zyme’s are fortified with: concentrated digestive enzymes from natural food sources to maximize the horse’s digestive efficiency, live yeast cultures and beneficial microorganisms to ensure proper digestion, utilization and absorption of the feedstuff already provided to your horse. Earth Biotics also contains added nutrients in the form of organic minerals, amino acids, anti-oxidants, kelp, colostrum and several other key ingredients.

Key Benefits:

- Improved nutrition = Improved health
- Reduces the incidents of colic or colic like symptoms
- Higher, more consistent energy levels from better feed utilization
- Helps to reduce parasitic infestations
- Healthier animal environments due to reduced nutrients in fecal matter
- Shiny glossy hair coat, improved condition and appearance

K-9- Zyme

K-9-Zyme & Feline-Zyme reintroduces missing living enzymes, reestablishes intestinal flora that can be lost due to stress and antibiotics. The enzymes take the burden off the digestive system making more nutrients available from commercial dog foods... important to their overall health.

Non-acidic Vitamin C is considered an important antioxidant, necessary for proper collagen synthesis, and may aid in treating or be helpful in preventing stress related diseases such as hip dysplasia, ligament and tendon diseases and joint disorders.

K-9 Zyme is a mixture of friendly, concentrated intestinal microorganisms with enzymes and nutrients critical to the canine & feline diet. These help to rebalance the digestive process, synthesize nutrients and appear to inhibit the action of potential cancer causing bio-chemicals. This is done by keeping pathogenic bacteria in check. It also inhibits parasitic infestation by maintaining a healthy balance of flora in the intestinal tract.

Over the years the canine diet has been made up of soy, grains and meat-by-products that are not components of a “natural” diet. Our dogs then begin to lack or have an imbalance of intestinal flora that can result in gas, bloating, intestinal and systemic toxicity, malabsorption of nutrients and in some cases, constipation. Overtime digestive organs become compromised when dogs are fed a “modern” diet instead of one that would be more natural, raw and enzyme rich. Providing a “friendly” environment can help reduce, and in some cases, clear up these problems. Critter Zyme not only contains a blend of “friendly” bacteria but contains digestive enzymes, organic minerals and

antioxidants.

Kitty-Zyme

In nature cats would eat raw foods and some plant matter, full of enzymes, that aid in digestion of food, filter the blood and repair the body. Domestic cats are for the most part given unnatural, over-processed commercial foods, some full of preservatives and chemicals that deplete the body. Feline Earth Biotic helps your cat digest its food by providing the probiotics and enzymes needed to absorb the available nutrients.

Our cats benefit greatly from the addition of direct fed beneficial bacteria and digestive enzymes. When disruption to normal bacteria occurs, cats can become unwell with symptoms that often include loss of appetite, weight loss, diarrhea and increased susceptibility to allergies and illness. Often, chronic infections and intestinal problems can be remedied, eliminating the need for antibiotic treatments. Imbalances of the intestinal flora caused by stress, including medications, surgery, temperature extremes, transportation, boarding, training, and showing of animals, can be reversed. Unfortunately it takes far longer to re-populate the good flora than it does to destroy it.

This excellent maintenance product of “friendly flora” can be used generously in times of crisis or illness. Kitty-Zyme was designed to be an important part of your cats health, longevity and quality of life.

Canine Benefits

- Digest food more efficiently
- Eliminates gas and bloating
- Reduces intestinal and systemic toxicity
- Helps prevent many health disorders
- Improves existing health

Feline Benefits

- Cats digest their food more efficiently and completely
- Relieves constipation and malabsorption of nutrients
- Filters blood and repairs the body
- Prevents numerous health disorders
- Improves overall health and well being

©Copyright 2007. Earth Song Ranch. All rights reserved.