

# Total-Biotics®

With L.E.A.D.S.®

Live Enzyme Activated Delivery System®

The most complete Pro-Biotic formula for your pet!



**NWC Naturals®**  
PET PRODUCTS

For more information go to  
Total-zymes.com  
Or call 888-207-3480

**“NEW and Improved” now made with 14 Different Species of Stable Live Probiotics and over a billion CFUs per scoop!**

## **Probiotics are linked to long life...**

For centuries natives of the Balkan islands have enjoyed extraordinary long and healthy lives. It was eventually determined that their good fortune was, in part, due to the fact that they ingest large quantities of lactobacilli (good bacteria) at every meal.

**A Large breed pet weighing 65-70 pounds needs up to 1.5 pounds of beneficial bacteria in its gut to protect against disease and illness!**

Without good bacteria, a pet's body would be unable to fight off disease, absorb food properly and their intestines become overrun with toxins and waste, which set the breeding ground for disease. Unfortunately every time you're pet drinks chlorinated water, eat fatty foods, get stressed or become overly tired, your pet unknowingly kills the good bacteria in their bodies. Even the pet foods we feed our pets to keep them healthy, like meat and poultry can contain antibiotics, further reducing the levels of good bacteria. For most pets this means every day, the lack of pro-biotics negatively affects their bodies' ability to stay healthy.

## **What are the benefits of Total-Biotics®?**

- ❑ **Boost the immune system**
- ❑ **Improve digestion**
- ❑ **Control yeast overgrowth**
- ❑ **Remove toxins from the body**
- ❑ **Help manufacture B-vitamins**
- ❑ **Promote proper elimination**
- ❑ **Help absorb iron from the diet for strong blood**

**NWC Naturals® Pet Products LLC (the makers of Total-Zymes®) delivers a convenient powder formula with an outstanding 14 stabilized strains of pro-biotics! It's the perfect companion product to Total-Zymes® the digestive enzyme formula. Together they are the one-two punch for complete digestion and intestinal health for your pet.**

**Total-Biotics® is** specially formulated with an astounding 14 species of stabilized probiotics, instead of the usual 1 – 2 forms provided in most other products. It also contains **over one billion CFUs** (colony forming units) in each scoop for maximum protection. To insure that you get over **one billion CFUs** in each scoop we actually make the product with many more CFUs than we claim.

**Total-Biotics®** is safe and contains only the highest quality human grade ingredients formulated just for pets with the strictest manufacturing standards to ensure purity and efficacy without a high cost. It is safe, all natural and there are no side effects.

## Active Ingredient Overview

**NWC Naturals® Pet Products LLC utilizes probiotic raw materials researched and developed by Dr. Khem Shahani. Total-Biotics® is formulated especially for pets by John R Taylor N.D.**



**#1 Acidophilus DDS-1 strain**— researched and developed by Dr. Khem Shahani for over 77 years Acidophilus is the most effective probiotic strain, defending against the greatest number of pathogens; inhibiting 11 disease-causing bacteria. Called the “sticker strain,” Acidophilus has the ability to actually cling to the intestinal wall without harming it. In fact, it is best known for its ability to move undisturbed through the stomach and into the intestines where it eats away at disease causing bacteria. It is known for reducing the occurrence of constipation and diarrhea, increasing nutrient uptake (especially calcium), preventing food poisoning and alleviating dermatitis and other skin and coat conditions.

**#2 B. bifidum**— is normally found in the mucus membranes lining of the large intestine and vaginal tract, where it attaches to the walls removing yeast that would further lower the pH levels and allow bacteria to grow. Supplementation has been shown to modify intestinal flora, ward off liver problems and protect against the damaging effects of radiation. It also helps control diarrhea and other intestinal disturbances.

**#3 Bacillus coagulans**— *Bacillus coagulans* has been added by the EFSA to their Qualified Presumption of Safety (QPS) list<sup>1</sup> and has been approved for veterinary purposes by the U.S. Food and Drug Administration's Center for Veterinary Medicine, as well as by the European Union and is listed by AAFCO for use as a direct fed microbial in livestock production. It is often used in veterinary applications, especially as a probiotic in pigs, cattle, poultry, dog and cats. There are many references to use of this bacterium in humans, especially in improving the vaginal flora, improving abdominal pain and bloating in Irritable Bowel Syndrome patients and increasing immune response to viral challenges. This bacterium has also been assessed for safety as a food ingredient. Spores are activated in the acidic environment of the stomach and begin germinating and proliferating in the intestine.

**#4 Bifidobacterium breve**— Some Bifidobacterium strains are considered as important probiotics and used in the food industry. Different species and/or strains of bifidobacteria may exert a range of beneficial health effects, including the regulation of intestinal microbial homeostasis, the inhibition of pathogens and harmful bacteria that can colonize and infect the gut mucosa Bifidobacterium breve is helping to modulate the local and systemic immune responses, the repression of cancer causing enzymatic activities within the microbiota. Bifidobacterium breve is involved in the production of vitamins, and the bioconversion of a number of dietary compounds into bioactive molecules. Bifidobacterium breve are also known to discourage the growth of Gram-negative pathogens in infants.

**#5 B. lactis**— *B. lactis* is a Gram-positive anaerobic rod-shaped bacterium, which can be found in the large intestines of most mammals, including humans. Bifidobacterium animalis and Bifidobacterium lactis were previously described as two distinct species. Presently, both are considered *B. animalis* with the subspecies Bifidobacterium animalis subspecies animalis and Bifidobacterium animalis subspecies lactis. Both names *B. animalis* and *B. lactis* are still used on product labels, as this species is frequently used as a probiotic in both human and pet products.

**#6 B. longum**— aids in the cleansing and health of the colon and liver. It has even been shown to significantly inhibit the growth of colon, liver and breast cancers in laboratory animals. It is also known for supporting breast health.

**#7 L. brevis**— *Lactobacillus brevis* is a species of lactic acid bacteria, all of which are Gram-positive, non spore forming organisms whose main metabolic pathway involves fermenting hexose sugars to produce lactic acid. *L. brevis* can be isolated from the food sources in inhabits, one example being kimchi. This bacterium is probiotic, and improves the human immune system.



**#8 L. casei**— is reported to be one of the most potent defenders from the potentially fatal Listeria bacteria. It is also known for its ability to induce an immune response that is helpful in protecting against sexually transmitted diseases.

**#9 L. plantarum**— can be found in naturally fermented foods. In your body it is found in the large intestine where it helps to break down protein into usable nutrients, thus reducing inflammation.

**#10 L. rhamnosus**— is one of the more highly studied probiotic strains, primarily used in the treatment of gastrointestinal disorders. It also aids the body in resisting yeast and urinary tract infections.

**#11 L. salivarius**— has been shown through research to produce a high amount of lactic acid, which is able to inhibit the growth of H. pylori, thusly reducing the associated inflammation and risk of peptic ulcers.

**#12 Lactococcus lactis**— has been shown through research to produce a high amount of lactic acid, which is able to inhibit the growth of H. pylori, thusly reducing the associated inflammation and risk of peptic ulcers. **Lactococcus lactis** is also beneficial to supplement the diet in maintaining normal intestinal flora.

**#13 S. thermophilus**— is known for repairing free radical damage from aging, stress, antibiotics, chlorinated water and other chemicals. It also contains an antioxidant that helps protect against the toxins present in the Standard Pet Diet and in treating the pain caused by arthritis.

**#14 L. Bulgaricus—Lactobacillus bulgaricus** is one of several bacteria used for the production of yogurt. It is also found in other naturally fermented products. First identified in 1905 by the Bulgarian doctor Stamen Grigorov, the bacterium feeds on lactose to produce lactic acid, which is used to preserve milk. Ilya Metchnikoff, a professor at the Pasteur Institute in Paris, researched the relationship between the longevity of Bulgarians and their consumption of yogurt. He had the idea that aging is caused by putrefactive activity, or proteolysis, by microbes that produce toxic substances in the intestine.

Proteolytic bacteria such as clostridia, which are part of the normal intestinal flora, produce toxic substances including phenols, ammonia and indols by digestion of proteins. These compounds are responsible for what Metchnikoff called *intestinal auto-intoxication*, which, according to him, was the cause of the physical changes associated with old age. It was already known at that time that fermentation with lactic acid bacteria inhibits the deterioration of milk because of its low pH.

## The Wonder of Probiotics



A 30-Day Plan to  
Boost Energy,  
Enhance Weight Loss,  
Heal GI Problems,  
Prevent Disease,  
and Slow Aging

John R. Taylor, N.D., and Deborah Mitchell

Metchnikoff's research had also noted that, in Europe, Bulgaria and the Russian steppes, some rural populations who had consumed milk fermented with lactic acid bacteria lived relatively long lives. Based on these data Metchnikoff proposed that consumption of fermented milk would seed the intestine with harmless lactic acid bacteria, which would increase intestinal acidity and thus suppress the growth of proteolytic bacteria

**Total-Biotics® is formulated by the author of the book “The Wonder of Probiotics” John R Taylor N.D.**

**Pre-biotics- Inulin IQ FOS (Fructooligosaccharides)** - one of the best-known pre-biotics, is a class of simple carbohydrates found naturally in certain plants, such as Jerusalem artichokes, onions, and bananas. FOS is known to promote the growth of beneficial bacteria in the gastrointestinal tract. It has been shown to stimulate growth of

bifidobacterium in the colon where many diseases first take root. Supplementing with FOS can greatly increase metabolic activity in the colon and help relieve constipation and reduce the production of intestinal putrefactive substances. Healthy colon function is vital to a properly functioning immune system.

**The only patented stabilized glutamine in the world- MGG chelate-** This stabilized Glutamine re-writes the book on utilizing anabolic nitrogen molecules to help cleanse and fortify the body. Glutamine yields beneficial effects on the intestinal mucosa and is also the major metabolic fuel for the small intestine. The addition of the chelated glutamine to Total-Biotics® greatly improves the stability and colonization characteristics of beneficial bacteria in the pet's intestinal tract and is an essential nutrient that is required by the intestinal cells. It can actually help repair a damaged intestinal tract.

**Live Enzyme Activated Delivery System® (L.E.A.D.S. ®)** - Like all of **NWC Naturals® Pet Products LLC** formulas, Total-Biotics® contains our exclusive Live Enzyme Activated Delivery System®. It is this delivery system that guarantees assimilation and utilization of the nutrients at the cellular level. **L.E.A.D.S. ®** is a proprietary system of adding a blend of select enzymes to botanical and whole-food products for the purpose of improving the release and absorption of nutrients contained in these products. This special blend of supplemental enzymes works to extract the nutrients from the formula

in the most bioavailable form so your pet's body can use them easily and efficiently. The **L.E.A.D.S.**® enzyme delivery system is formulated to match the specific needs of each individual product made by **NWC Naturals® Pet Products LLC** and are based on a unique and proprietary method. It is especially beneficial with products providing a whole-food source of vitamins, minerals and pro-biotics.

## QUESTIONS AND ANSWERS

### 1. Is Total-Biotics® just for sick pets?

No, this is the most powerful high colony forming formula in the world supplying over one Billion CFUs of 14 different strains of good guy bacteria matched to each cup of food consumed. Pets that are convalescing defiantly will benefit greatly from this product, but is essential that all pets have a daily supplement of pro-biotics to build and maintain their susceptible immune systems. Raw fed pets should get double the dose to protect from salmonella and e. Coli often found in raw food.

### 2. What type of research is behind the Total-Biotics® formula?

Total-Biotics® combines the latest research and clinical studies into one powerful formula. The probiotics in this formula were selected after consulting with Dr. Khem Shahani from the University of Nebraska. Dr. Shahani is recognized as the world's foremost authority on beneficial bacteria supplementation and is a pioneer in the discovery of DDS-1 Acidophilus.

### 3. Does Total-Biotics® have a bad taste?

Total-Biotics® basically has no flavor! Since it is all human grade ingredients, try it yourself.

### 4. Are there any side effects?

Total-Biotics® has no known side effects.

### 5. If my pet is on medication, can I safely use this formula?

It is safe to take Total-Biotics® along with medication. There are no known drug interactions and the ingredients do not alter the action of any medications. In fact, since antibiotics can actually wreak havoc on your pet's immune system, taking probiotics along with medications can positively affect their health.

### 6. I already give my pet a multi-vitamin, why take this formula in addition?

Multivitamins provide general nutritional support to the body but only if you have enough good bacteria in your body to allow for absorption. Total-Biotics® uses 14 strains of probiotics to help clean your pets system of toxins and improve nutrient absorption.

### 8. I heard that you should not take immune boosters daily, Is that true?

Total-Biotics® does not work like your typical immune booster. It works by cleaning out your pet's intestines of the toxins and other material, which has been left behind after digestion has failed. In doing this, it reestablishes the pH balance, allowing your pet's body once again become healthy and fight potential disease and infection better than ever.

### 9. Can I give Total-Biotics® to my new puppies?

This formula is safe for most pets. For puppies less than 1 year of age use half the recommended dose.

### 10. I have a bitch in whelp/nursing. Can I safely use this formula?

Total-Biotics® is safe, however, you should always check with your veterinarian before beginning any supplementation if you are breeding. This formula would even be safe for an infant human.

### 11. My pet is allergic to yeast and gluten, can I use this formula?

Total-Biotics® contains no yeast or gluten.

### 12. Is it necessary to refrigerate Total-Biotics®?

Total-Biotics® requires no refrigeration to maintain label claim potency since we have doubled the number of colony forming units (CFUs) in the formula. The product will stay fresh and viable if kept cool. Refrigeration or even freezing is not necessary but it will prolong potency. Refrigeration will extend the expiration date by six months and freezing will extend it one year.



For more information go to [Total-zymes.com](http://Total-zymes.com).  
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