

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

“The only pet probiotic made with 14 Different Species of Stable Live Probiotics and over a billion CFUs per scoop!”

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

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, eats fatty foods, gets 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®?

- ❑ Support a strong immune system
- ❑ Support good digestion
- ❑ Aids balance between yeast and probiotics
- ❑ Remove toxins from the body
- ❑ Help manufacture B-vitamins
- ❑ Promote proper elimination
- ❑ Help absorb iron from the diet for strong blood



With Over 23 years' experience

NWC Naturals® Pet Products (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 ensure 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 selected probiotic raw materials based on research developed by Dr. Khem Shahani. Total-Biotics® is formulated especially for pets by John R Taylor N.D.

#1 Acidophilus— 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 undisrupted 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) list¹ 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.

L. reuteri —figure prominently in populations of normal canine microbiota. Along with providing strong anti-microbial activity in the GI tract, this bacterium is also extremely vigorous and capable of significantly modifying and improving inferior intestinal health. *L. reuteri*, has been found to be helpful in preventing or alleviating canine intestinal infections.

#5 B. animalis — *B. lactis* or (AKA *B. animalis*) 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 E. faecium— a probiotic bacterium found in the guts of humans and animals. It is a lactic acid bacterium, which may seem odd, as it is not in the *Lactobacillus* genus like other lactic acid bacteria. Research has shown that *E. faecium* can have beneficial effects for humans and animals alike. *E. faecium* has the capacity to fight off *Salmonella* spp., *E. coli*, *Pseudomonas* spp, *Proteus* spp., and other potentially pathogenic bacteria that can be common animal feed contaminants or food intoxication agents. This is because *E. faecium* produce substances with the capacity to inhibit the growth of these pathogenic bacteria.



#11 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.

#12 L. fermentum— figures prominently in populations of normal canine microbiota. Along with providing strong anti-microbial activity in the GI tract, these bacteria are also extremely vigorous and capable of significantly modifying and improving inferior intestinal health.

#13 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.

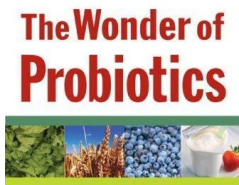
#14 L. helveticus—is an acid and bile resistant strain, allowing it to survive in the stomach and reach the intestine alive more easily than many other bacteria. It is capable of exerting antimicrobial activities against pathogens. This probiotic also provides a number of indirect benefits for overall digestion when found in adequate numbers in the gut. Enhancing the bioavailability of nutrients, removing allergens

NWC Naturals Inc. is a member of NASC. NASC Primary Suppliers are responsible suppliers of animal health and nutritional supplements for dogs, cats, and horses. Companies are committed to quality, vigilance, and continuous improvement to promote the wellbeing of companion animals. Primary Suppliers must sign and abide by the NASC Code of Conduct when they join. Primary Suppliers must complete an independent facility audit and comply with the NASC's stringent quality requirements to earn permission to display the NASC Quality Seal on their products



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

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.



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

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, chickory, 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 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, dairy, soy 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.
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