



TOTAL K9®

Multi-System Formula



K9 Power **Total K9**® is a highly palatable, non-allergenic, mixture of specialized ingredients that contribute to enhanced functioning and health of the dog's organ systems, especially skin and coat, GI, brain, ocular, bone and joint, and heart. Ingredients used are of the highest quality and support the general health and well-being of the dog.

- + Supports and Promotes Long-Term Health
- + Supports a Healthy Immune System
- + Promotes Antioxidant Protection
- + Helps Maintain the General Health and Well-being of all dogs

Product Facts

Active Ingredients per 10g scoop: 45 scoops per container. Scoop included.

Proprietary Blend	1,000 mg
(Turmeric, Quercetin dihydrate powder, Beta berries powder, Yucca root powder, Basil leaf powder, Ginger root powder, Astaxanthin powder)	
Cod liver oil powder	375 mg
Green lipped mussel powder	200 mg
Choline (as bitartrate)	150 mg
ProbioSEB Duo™*	100 mg
(Bacillus subtilis, Bacillus coagulans, Lactobacillus sporogenes)	
Vitamin C (as calcium ascorbate)	100 mg
Inulin (chicory source)	100 mg
Mannan oligosaccharides	50 mg
Yeast beta-glucans	50 mg
Coenzyme Q10	50 mg
L-aurine	20 mg
L-carnitine	10 mg

*20 billion CFU/g: contains *Bacillus subtilis* (8 billion CFU/g) and a mixture of *Bacillus coagulans* and *Lactobacillus sporogenes* (12 billion CFU/g).

Inactive Ingredients: Camelina meal, chicken powder, mixed tocopherols, pork liver powder, psyllium seed husk, stabilized rice bran, whole egg powder.



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TOTAL K9® INGREDIENT PANEL

- For the owner who desires a single supplement that will support the overall health and well-being of their dog, Total K9® is for them. Most supplements are formulated to enhance specific organ systems within the body of the dog, or to address specific morbidities that the dog might experience. Total K9® is a broad-spectrum supplement providing nutraceuticals that aid in optimizing critical organ system functionalities in the dog.
- We start with our **proprietary blend of turmeric, quercetin dihydrate powder, beta berries powder, yucca root powder, basil leaf powder, ginger root powder, and astaxanthin**. These are known as “phytonutrients”. They are potent natural antioxidants with anti-inflammatory and antimicrobial properties. Collectively, they are known to increase circulation of blood throughout the body by decreasing capillary fragility, thus impacting nearly every organ system in the body, and reducing oxidative stress from environmental contaminants.
- Inflammation is part and parcel of nearly all health-related issues experienced by the dog. Omega-3 fatty acids have been shown to be powerful anti-inflammatory ingredients and are today found in most dog foods, treats, and supplements. K9 Power uses one the very best sources of omega-3’s, **cod liver oil powder**, a source of omega-3 fatty acids that are effective in modulating the harmful effects of allergies and other conditions that result from an overly active immune system response. The primary omega-3 fatty acids found in **cod liver oil powder** include eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA). Research has linked these two fatty acids to a variety of health benefits as they suppress the body’s inflammatory response by reducing concentrations of pro-inflammatory cytokines produced by the immune cells. **Cod liver oil powder** has the added advantage of being a rich source of Vitamins A and D. In addition, its omega-3 fatty acids may reduce chronic inflammation by suppressing the proteins that promote it such as TNF-alpha, IL-1, and IL-6.
- **Green-lipped mussel powder** contains an abundance of protein, vitamins, minerals, and omega-3 fatty acids. One of the strongest anti-inflammatory ingredients available today, it is widely used to support bone and joint health. We include it here in place of chondroitin sulfate and glucosamine that also support bone and joint health, but we believe this to be the superior product in this next generation Total K9® supplement.



- **Choline** is required by the body to synthesize phosphatidylcholine and sphingomyelin, two major phospholipids vital for cell membranes. Animal cells need choline to preserve their structural integrity. In addition, choline is needed to produce acetylcholine, an important neurotransmitter for memory, mood, muscle control, and other brain and nervous system functions. Choline also plays important roles in modulating gene expression, cell membrane signaling, and lipid transport and metabolism.
- **ProbioSEB Duo™** contains beneficial probiotic microorganisms along with the prebiotic, short-chain fructooligosaccharides, that provide nourishment for the probiotic microorganisms. In this case, the probiotic microorganisms include *Bacillus subtilis*, *Bacillus coagulans*, and *Lactobacillus sporogenes*, three microbes believed to contribute to gut and immune health. The short-chain fructooligosaccharide prebiotic serves as food for the three probiotic microbes and it also serves as food for the healthful bacteria inhabiting the large intestine of the dog. The activity of this synbiotic will be enhanced by the presence of **chicory inulin**, a long-chain fructooligosaccharide that is fermented slower than its short-chain counterpart. The presence of both allow for the production of short-chain fatty acids throughout the large intestine, allowing the intestine to be “bathed” in these health-promoting metabolites. The presence of **mannan oligosaccharides** and **beta-glucans** greatly enhances the activity of the synbiotic as these compounds have potent effects on the gut microbiota, dramatically decreasing gut pathogen activity and supporting metabolism of the healthful gut bacteria in addition to supporting immune health.
- **Vitamin C** is a water-soluble vitamin required for the biosynthesis of collagen (an essential component of connective tissue that plays a vital role in wound healing), **L-carnitine**, and certain neurotransmitters. It also is involved in protein metabolism and is an important physiological antioxidant and has been shown to re-generate other antioxidants within the body, including alpha-tocopherol. It plays an important role in immune function as well. Supplemental **L-carnitine** has been added to this supplement as it is a non-essential amino acid whose role is to transport long-chain fatty acids from the cytoplasm to the mitochondria of the cell, thus facilitating the production of energy.
- **CoQ10** (ubiquinone) is a vitamin-like compound manufactured by the body but can become in short supply as the dog ages. Its concentration is highest in organs with the highest energy demand (heart, liver, kidneys) and it is critical to the proper functioning of all three organs.
- **L-taurine** supports cardiac, ocular, and cognitive function.
- While the **active ingredients** are the most important components of the next generation Total K9® supplement, the **inactive ingredients**, too, contribute to its excellent nutritional quality. For example, **camelina meal** is a unique source of plant-derived omega-3 fatty acids that will support skin and coat health. **Camelina** is an emollient (skin softener) that is high in antioxidant



content, helps control inflammation, and supports immune function. **Chicken powder** contains a well-balanced amino acid profile that supports many metabolic functions within the body. It is also a good source of fat, minerals, and B-complex vitamins, and is highly palatable. A blend of natural **mixed tocopherols** serves to neutralize free radicals formed in the body. They also provide emulsifiers and chelating agents for complete protection against rancidity, thus contributing to supplement stability. **Pork liver powder**, along with **chicken powder**, contribute to the desirable taste of the supplement, while **psyllium seed husk** and **stabilized rice bran** are responsible for providing proper texture and flow characteristics. **Whole egg powder** is added as an additional source of amino acids, especially leucine and isoleucine, which help to prevent loss of muscle mass as the dog matures.