



SUPER FUEL™

Performance Formula



K9 Power **Super Fuel™** is designed to meet the nutritional needs of today's active dogs with a performance formula that supports skeletal stability and lean muscle formation. **Super Fuel™** further meets the needs of active dogs by promoting greater stamina and endurance while aiding in recovery from stressors. Our advanced performance formula is designed to help maximize muscle efficiency and endurance while promoting a speedy recovery time.

- + Enhances Exercise Tolerance
- + Helps Support Stamina and Endurance
- + Promotes Muscle Integrity and Definition
- + Designed for Active and Performance Dogs

Product Facts

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

Milk protein isolate	1,200 mg
Salmon oil powder	800 mg
Agave nectar powder	800 mg
Beta-alanine	500 mg
Creatine (as monohydrate)	500 mg
Icelandic kelp powder	500 mg
Betaine (as hydrochloride)	300 mg
L-citrulline (as malate, 1:1)	250 mg
Safflower oil powder	250 mg
ProbioSEB Duo™*	100 mg
<i>(Bacillus subtilis, Bacillus coagulans, Lactobacillus sporogenes)</i>	
Hyaluronic acid (as sodium hyaluronate)	100 mg
Chondroitin sulfate (bovine source)	100 mg
Beta berries powder	50 mg
L-glutamine	30 mg
Blueberry powder	30 mg
Citrus bioflavonoids	30 mg
L-taurine	30 mg
L-arginine (as hydrochloride)	10 mg
L-carnitine (as hydrochloride)	10 mg
*20 billion CFU/g: contains <i>Bacillus subtilis</i> (8 billion CFU/g) and a mixture of <i>Bacillus coagulans</i> and <i>Lactobacillus sporogenes</i> (12 billion CFU/g).	

Inactive Ingredients: Broccoli sprout powder, camelina meal, chicken powder, mixed tocopherols, pork liver powder, stabilized rice bran, whole egg powder.



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SUPER FUEL™ INGREDIENT PANEL

- Many dogs today lead very active lives, from serving in the military or on the police force, to hunting, to participating in sport of various kinds. These dogs need specialized diets, and they need a specialized supplement to complement their dietary regimen. K9 Super Fuel™ is such a supplement. We start with **milk protein isolate** as the ingredient present in highest concentration. It is a completely balanced protein that contains the branched-chain amino acids, leucine and isoleucine, important for optimal muscle growth and activity. **Milk protein isolate** also has been shown to increase bone density by promoting bone growth and preventing bone breakdown, and it has been shown to have anti-inflammatory effects in the body.
- Complementing the nutritional and functional properties of **milk protein isolate** are 8 amino acids: (a) **beta-alanine**, found mostly in skeletal muscle that, in the body, combines with histidine to form carnosine, a muscle buffer needed during intense exercise to overcome the development of an acidic pH that leads to muscle fatigue. (b) **creatine** (as the monohydrate form), found mostly in skeletal muscle and brain tissue, helps facilitate recycling of ATP in muscle and brain tissue. It has many roles to include contributing to increased muscle mass, helping boost anaerobic strength, supporting cognitive function, improving muscle recovery time, and boosting energy and endurance. (c) **betaine** (as the hydrochloride form), also known as trimethylglycine, improves body composition and helps promote muscle gain due to its ability to promote protein synthesis in the body. It also aids in promoting optimal cardiac function, has anti-inflammatory effects, aids liver function and detoxification, aids digestion, and helps relieve muscle soreness. (d) **L-citrulline** (as the malate form in a ratio of 1:1), is a non-essential amino acid that helps the body rid itself of harmful substances such as the amino acid breakdown product, ammonia. It is a vasodilator, and aids in building up muscle. DL-malate enhances energy production from nutrients, thus enhancing work performance. (e) **L-glutamine** is used to build muscle mass and speed recovery from exercise. (f) **L-taurine** is an amino sulfonic acid with important functionality in the heart and brain. (g) **L-arginine** (as the hydrochloride form), is an effective vasodilator that increases the flow of blood throughout the body. (h) **L-carnitine** (as the hydrochloride form), is a naturally occurring amino acid structure that aids in the production of energy from fat.



- Fat sources used in a performance formula of this type are critically important. **Salmon oil powder** is a rich source of omega-3 fatty acids that are anti-inflammatory and that play a role in ensuring optimal health of the heart, liver, brain, and nervous system. The primary omega-3 fatty acids found in **salmon oil powder** are 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 chemicals produced by the immune cells. Another fat source found in Super Fuel™, **safflower oil powder**, contains high concentrations of the omega-6 fatty acid, linoleic acid, which has been shown to optimize the circulation of blood throughout the body, support immune function, and enhance muscle growth.
- A healthy gut microbiota is important for the proper functioning of the performance dog. **Agave nectar powder** is a natural source of the prebiotic, inulin, which positively impacts the gut microbiota towards a more healthful population. **Icelandic kelp powder** is rich in antioxidants such as carotenoids and flavonoids as well as beta-glucans and mannan-oligosaccharides, all of which support the gut microbiota. **ProbioSeb Duo™** is a synbiotic with a variety of probiotic microorganisms along with the prebiotic, short-chain fructooligosaccharides. In this case, the probiotic organisms include *Bacillus subtilis*, *Bacillus coagulans*, and *Lactobacillus sporogenes*, three microbes believed to contribute to gut and immune health. The prebiotic component serves as a readily available food source for the probiotic microbes in the ingredient, in addition to those healthful microbial species residing in the gut. Synbiotics support and enhance the resident microbiota in the large intestine of the dog and, as a result, positively impact immune health and cognitive function. Inclusion of this ingredient in a performance dog supplement helps to ensure a stable and healthy gut microbiota throughout the lifetime of the dog.
- Two functional ingredients are included in Super Fuel™ to help optimize bone and joint health of the performance dog. These include **hyaluronic acid** that supports the natural lubricating factors in synovial fluid around joints and **chondroitin sulfate** that preserves cartilage, promotes flexibility, and aids in controlling the body's natural inflammatory responses.
- Finally, to complement the presence of **Icelandic kelp powder** referred to above, and which has strong antioxidant functionality, we add **beta berries powder**, **blueberry powder**, and **citrus bioflavonoids** to Super Fuel™ as they contain phytonutrients such as polyphenols, anthocyanins, resveratrol, and carotenes, all of which have strong antioxidant and anti-inflammatory properties. They support cardiac and immune function and boost the amount of energy available to the working dog.
- While the **active ingredients** are the most important components of the next generation Super Fuel™ supplement, the **inactive ingredients**, too, contribute to its excellent nutritional quality. For example, **broccoli sprout powder** provides additional antioxidant protection for the performance dog as a result of the presence of sulforaphane, a unique substance found in only a limited



number of ingredients. **Camelina meal** is a unique source of plant-derived omega-3 fatty acids that aid digestive health. **Chicken powder** contains a well balanced amino acid profile that supports many metabolic function within the body. It is also a good source of fat, minerals, and B-complex vitamins and together with **pork liver powder** and **whole egg powder** makes Super Fuel™ highly palatable to the dog. 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 and shelf-life. **Stabilized rice bran** is responsible for providing proper texture and flow characteristics to the supplement.