





K9 Power **Go Dog**[®] is a hydration formula designed to maintain healthy endurance levels without increasing stress. **Go Dog**[®] hydration mix provides your dog with the necessary components for their active lifestyle. It is deal for working dogs and active pets who enjoy long walks, hikes, and runs. This blend features a mix of electrolytes and short-burst and long-range energy fuels designed to hydrate and help keep your dog in their performance safety zone.

- + Helps Support Hydration Levels
- + Supports Performance and Endurance
- + Helps Support Electrolyte Balance
- + Supports Normal Recovery Time after Strenuous Activity

Product Facts

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

L-citrulline (as malate, 1:1)5	00 ı	mg
Beta-alanine5	00 I	mg
Betaine (as hydrochloride)	00 I	mg
L-leucine	00 I	mg
Creatine (as monohydrate)	00 I	mg
L-theanine1	50 ı	mg
Green tea extract	80 I	mg
Sodium chloride	60 ı	mg
Potassium chloride	60 ı	mg
L-threonine	60 ı	mg
Phosphatidylserine (20%)	50 ı	mg
Acetyl-L-carnitine (as hydrochloride) .	.18 ı	mg
L-lysine (as hydrochloride)	4 ı	mg
L-glutamine	3 ı	mg
L-taurine	2 ı	mg
Alpha-lipoic acid	2 ı	mg
L-tryptophan powder	2 ı	mg
Quercetin (as dihydrate)	2 r	mg
L-alanine	2 ı	mg

Inactive Ingredients: Agave nectar powder, glycerol powder, magnesium citrate, maltodextrin, pork liver powder, potassium citrate, sodium citrate.

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GO DOG® INGREDIENT PANEL

- In the development of this next generation Go Dog[®] hydration formula, solubility in water is critical so as to be able to rapidly supply the dog with our unique blend of ingredients when they are at peak exercise or work activity. To accomplish this, one of the **inactive ingredients** present in the supplement, **maltodextrin**, is used as a carrier for the **active functional ingredients**. In addition, the most soluble forms of the **active functional ingredients** available are used in the preparation of the final product.
- In supplements of this type, amino acids are critical in allowing the dog to achieve its maximal performance potential. In that regard, we start with L-citrulline malate, a non-essential amino acid that helps the body rid itself of harmful substances such as the amino acid breakdown product, ammonia. Toxic compounds like ammonia can seriously jeopardize a dog's potential work performance. L-citrulline malate is a vasodilator, and aids in building up muscle. The DL-malate component enhances energy production from nutrients, thus enhancing work performance by the dog. Beta-alanine is an amino acid 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, a major cause of less than optimal work performance.
- Other amino acids are needed, but at lower concentrations in the Go Dog[®] supplement.
 L-leucine is the amino acid most associated with maintaining and building muscle. L-theanine is a unique amino acid found primarily in green and black tea and in some mushroom species. It is known for its ability to ease anxiety and stress and to improve the function of the body's immune system to include decreasing inflammation in the intestinal tract. L-threonine promotes the development of healthy muscles and supports high activity levels of the working/exercising dog. Acetyl L-carnitine hydrochloride is an amino acid that has the ability to cross the bloodbrain barrier, which aids in transport of fat in the body into blood cells, helping the body to produce energy and aid in nutrient metabolism. This amino acid supports cardiovascular health, muscle movement, energy production, and cognitive function, all of which are important in achieving optimal performance of the working dog. L-lysine hydrochloride powder and L-tryptophan help promote and support muscle development, thus supporting high activity



levels in the working/exercising dog. **L-glutamine** is used to build muscle mass, speed recovery from exercise, and optimize the health and function of the gastrointestinal tract. **L-taurine** enhances cardiac, ocular, and cognitive functions. Finally, **L-alanine** contributes to optimal energy status of muscle, brain, and the central nervous system of the dog.

- Betaine hydrochloride is a compound that aids in joint recovery from stressors by virtue of the fact that it increases the concentration of S-adenosylmethionine, the specific compound that elicits the effect. Also, it helps maintain glutathione concentrations because, when glutathione concentrations decrease, more free radicals are produced that stimulate NF-kappa-beta.
 Betaine serves to keep NF-kappa-beta inactive, thus diminishing the negative effects of free radicals, compounds that negatively impact work performance by the dog.
- Creatine monohydrate helps facilitate recycling of ATP in muscle and brain tissue. It has many roles: (a) it contributes to increased muscle mass; (b) it helps boost anaerobic strength; (c) it supports cognitive function; (d) it improves muscle recovery time; and (e) it boosts energy and endurance.
- Green tea extract offers excellent antioxidant protection and enhances energy production in the body.
- Sodium chloride and potassium chloride play key roles in contraction of cardiac and skeletal muscle. They serve to maintain a healthy water balance and a healthy blood flow in the body. Optimal cardiovascular health, nerve function, and muscle function are dependent on their presence in the nutrition provided to the dog.
- Phosphatidylserine is a phospholipid, a fatty substance that helps transmit messages between nerve cells in the brain. When provided in supplement form, it helps increase exercise capacity and improve athletic performance. It helps reduce muscle damage and decreases muscle soreness and protects against an increase in concentrations of blood cortisol, a stress hormone whose concentration increases as a result of intense training.
- Alpha-lipoic acid is an organic compound produced in the mitochondria of the body cells. It functions as a type of catalyst for the enzymes to convert nutrients to energy. It also has powerful antioxidant properties. Most antioxidants are either water-soluble or fat-soluble, but alpha-lipoic acid is unique in that it is both water-soluble and fat-soluble, which is why it is able to function in each and every cell of the body. Its presence in the body helps to mitigate cellular damage.
- Quercetin dihydrate powder is a type of phenolic compound referred to as a "flavonoid" that
 has strong antioxidant and anti-inflammatory properties. Studies have shown that human
 athletes consuming quercetin experienced improved lean body mass, hydration levels, calories
 burned at rest (i.e., basal metabolic rate), and total energy expenditure.



While the active ingredients are the most important components of the next generation Go Dog[®] hydration drink, the inactive ingredients, too, contribute to its excellent nutritional quality. Maltodextrin, a highly water-soluble polymer of glucose, already has been mentioned. It is used primarily as a thickener, sweetener, and (or) stabilizer. It is safe, inexpensive, and extremely water-soluble (1.2 kg maltodextrin mixes completely with 1 liter of water). Agave nectar powder contains between 75 and 90% fructose, the sweetest sugar known. It serves as an excellent palatability agent as dogs like sweet tastes. It also stabilizes blood glucose concentrations, which is helpful when dogs are participating in short-duration, high-intensity events.
 Glycerol powder is a simple polyol that serves as a sweetener and a humectant. Magnesium citrate, potassium citrate, and sodium citrate are highly bioavailable forms of Mg, K, and Na, respectively. These minerals are important to the efficient operation of cells in the working dog. Finally, pork liver powder provides a flavor that dogs will readily consume and enjoy.