MULTIVA® Active Defense

For Dogs

New Generation MULTI Supplement for Dogs, Rich in Vitamins, Minerals, Omega 3 & 6 Fatty Acids and Methionine, Formulated in Highly Palatable Chews – Free from Ingredients of Animal Origin

FREE OF INGREDIENTS OF ANIMAL ORIGIN – NEW FORMULA

Introduction

The immune system is one of the most complex and diverse systems in the body.[1] It comprises different cells and molecules with specialized functions that defend against infection[2], consisting of both innate and adaptive components. Animals are constantly exposed to microbes, allergens, toxins and other potentially harmful substances that can enter the body through the gut, respiratory tract and skin.

The efficiency of the immune system is reduced with age and chronic stress. Oxidative damage is involved in different harmful conditions, and sublinical diseases can cause loss of vitamins and other nutrients.

In those situations, dietary supplementation with certain ingredients may help to slow these changes. The intake of adequate amounts of necessary nutrients is important for the proper function of the immune response and other body systems, as clinical deficiencies of these nutrients weaken immunity and can increase susceptibility to infections.

Active Ingredients per 3.5 g chew			
Methionine	10 mg	Vitamin A	1000 IU
Linoleic Acid (from safflower oil)	91 mg	Vitamin D_3	100 IU
Omega 3 Fatty Acids (from flaxseed oil)	58 mg	Vitamin E	15 IU
Calcium (3.20%)	112 mg	Vitamin B_1 (Thiamine)	0.2 mg
Phosphorus (1.60%)	56 mg	Vitamin B_2 (Riboflavin)	1 mg
Potassium (0.43%)	15 mg	Vitamin B_5 (Pantothenic Acid)	4 mg
Magnesium (0.14%)	5 mg	Vitamin B_3 (Niacin)	5 mg
Iron (857 ppm)	3 mg	Vitamin B_6 (Pyridoxine)	0.4 mg
Copper (86 ppm)	0.3 mg	Vitamin B_9 (Folic Acid)	0.08 mg
Manganese (286 ppm)	1 mg	Vitamin B_{12} (Cobalamin)	0.008 mg
Zinc (857 ppm)	3 mg	Biotin	0.004 mg
Iodine (14.3 ppm)	0.05 mg	Vitamin C (Ascorbic Acid)	25 mg
Selenium (3 ppm)	0.01 mg		

Ingredients: Oat flour, brewers dried yeast, glycerin, rye flour, calcium phosphate, vegetable flavor, arabic gum, calcium carbonate, safflower oil, sunflower lecithin, flaxseed oil, l-ascorbyl-2-polyphosphate, dried citrus pulp, water, vitamin E supplement, dl-methionine, ferrous sulfate, vitamin B_{12} supplement, sorbic acid (a preservative), zinc sulfate, magnesium oxide, niacinamide, d-calcium pantothenate, manganese sulfate, propionic acid (a preservative), mixed tocopherols (a preservative), rosemary extract, vegetable oil, riboflavin, vitamin A supplement, copper sulfate, folic acid, potassium chloride, vitamin D_3 supplement, pyridoxine hydrochloride, sodium selenite, thiamine mononitrate, biotin, calcium iodate.

Characteristics

- **Rich in Zinc, Selenium and Vitamins C, D_3, E & A to support the immune system.**
- Complete and balanced formula.
- **25 active ingredients** - Blend of vitamins, minerals, amino acids, antioxidants and essential omega-3 and omega-6 fatty acids, that work synergistically to support optimal health.
- **New generation supplement:**
  - **Free from ingredients of animal origin** to minimize food allergies.
  - **Highly palatable chews:**
    - Improves compliance.
    - Stress free administration.
- Formulated to support overall physical well-being.
- Affordable and ideal for long-term use.
- Suitable for all breeds, ages and lifestyles, from puppies to senior dogs.

MULTIVA® Active Defense

Mechanism of Action

- **Zinc** is required for key biological processes involved in growth, development, repair, metabolism, cellular integrity and functionality, as well as immune tolerance in the innate and adaptive systems.
- **Vitamin C** is a powerful antioxidant, neutralizes free radicals and helps prevent age-related diseases, cellular stress, joint degeneration and also supports immune system function.
- **Vitamin D_3** plays a vital immunomodulatory role, enhancing immune function. It is also essential for the normal absorption and utilization of calcium and phosphorus.
- **Vitamin E** is a powerful antioxidant and prevents damage to cell membranes and protects tissues from free radicals. It also boosts the immune system.
- **Selenium** protects against oxidative damage, modulates immune function and reduces inflammation.
- The **combined supplementation of vitamin E and selenium optimizes immune function.**
- **Vitamin A** contributes to normal iron metabolism, maintenance of natural protective barriers, optimal functioning of the immune system and proper maintenance of vision.
- **Omega 3** fatty acids have anti-inflammatory activity and participate in the fluency of cell membranes. They decrease inflammation and pruritus and improve immune response.
- **Linoleic acid (Omega-6)** fatty acid. Its deficiency can affect the integrity of the skin barrier, causing poor skin condition and greater sensitivity. Linoleic acid is also involved in bone and dental development, as well as optimal joint function.
- **B vitamins** have neuroprotective effects, antioxidant properties and are essential for the synthesis of hemoglobin and red blood cells.
- **Magnesium** is involved in nerve conduction and muscle contractions, preventing neurological disorders.
- **Iron, Copper and Cobalt** are essential for the synthesis of hemoglobin and red blood cells.
- **Manganese** is involved in mitochondrial cell function, and is also essential for the formation of collagen, GAGs and proteoglycans.
- **Calcium and Phosphorus** are involved in the formation and metabolism of bones and teeth.
- **Sodium and Potassium** are essential for proper cell function and energy metabolism.
- **Methionine** is an essential amino acid that plays an important role in liver metabolism with its antioxidant activity to help maintain normal liver function in senior dogs.

Recommended Uses

- **To support the immune system in situations of stress, senior dogs, convalescence/recovery, reduced appetite, apathetic, weakened animals, etc.**
- To support overall well being, and promote vitality.
- In senior dogs to minimize muscle and weight loss.
- As a support in situations of greater nutritional demand: young dogs, sport or very active dogs, extreme weather conditions, seasonal changes, outdoor animals, etc.
- To maintain optimal skin and coat condition.

Directions for Use

Give once a day or divided into two doses (morning and night):

- ½ chew for up to 30 lbs
- 1 chew for 30-60 lbs
- 2 chews for > 60 lbs

The duration of treatment should be assessed by the veterinarian in each case.

Presentation

30 chews

References

1. Day, M. Atlas en color de Enfermedades Inmunomediadas del Perro y el Gato: Cuadros clínicos, Diagnóstico y Tratamiento. (1999). Grass Ediciones.
2. Delves, P., Roitt, I., et al. Advances in Immunology, The Immune System, First of Two Parts, Review Article. 2013. The New England Journal of Medicine.

DS050.2512

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