

Goat milk for pets



Introduction

Goat milk is becoming increasingly more common for pets. What benefits does it offer your pet? The purpose of this document is to:

- Detail how the nutrients in goat's milk support specific functions in the body, including digestive and immune health
- Explain the benefits of adding goat's milk to your pet's diet

Digestive & immune health

Goat's milk is one of nature's incredible sources of nutrients, such as vitamin A, selenium, calcium, and phosphorus. It is not only the abundance of minerals in goat milk that are of value but also the bioavailability; the minerals in goat milk are more available for digestion and use throughout the body than minerals in cow's milk ⁽¹⁾.

While vitamin A is an essential nutrient for our pets, they cannot produce it themselves and require vitamin A in their diet to supply their requirements. There are two different sources of vitamin A: animal and plant sources. Goat's milk is an animal source of vitamin A. It is an incredible bioavailable source of vitamin A because it is found as retinol, also known as the active form of the vitamin. Alternatively, plant sources provide vitamin A in the form of carotenoids - but for our pets to use this form of the vitamin, it must be converted into retinol first to be accessible in the body ⁽²⁾.

Providing an abundance of vitamin A from goat's milk may help to support many aspects of your pet's wellbeing, including vision, growth and development, and immunity ⁽³⁾. Vitamin A is vital in the fight against infection through its ability to support the gut barrier and reduce infectious activity within the body. It also plays a role in creating the immune supporting white blood cells, specifically Helper T and B cells, which are directly involved in fighting off infections ⁽⁴⁾.

Selenium is another abundant nutrient found in goat's milk and is also a vital trace mineral that supports overall immunity ⁽⁵⁾. Selenium, like vitamin A, also affects our pet's immune systems. The immune response is a vast system that requires many different types of cells and nutrients to stimulate these cells.

Selenium supports antibody formation and the activity of Helper T cells, natural killer cells and another form of T cells involved in the immune response, cytotoxic T cells ⁽⁶⁾.

ZIWI® Peak Gut & Immune recipe contains goat's milk, a natural source of vitamin A and selenium. The guaranteed levels of vitamin A are 125,000 IU/kg and 1mg/kg of selenium.

Conclusion

ZIWI® Peak Gut & Immune recipe featuring goat's supports your pet by providing bioavailable and vital immune supporting nutrients. These nutrients stimulate the immune response through their ability to support the proliferation of immune cells, as well as support the gut barrier, where over 70% of the immune system resides. Adding ZIWI® Peak Gut & Immune to your dog's meal daily will help support various functions in the body, including gut and immune health.

References:

1. Nazli Turkmen, Chapter 35 - The Nutritional Value and Health Benefits of Goat Milk Components, Editor(s): Ronald Ross Watson, Robert J. Collier, Victor R. Preedy, *Nutrients in Dairy and their Implications on Health and Disease*, Academic Press, 2017, Pages 441-449
2. Gilbert C. What is vitamin A and why do we need it? *Community Eye Health*. 2013;26(84):65. PMID: 24782580; PMCID: PMC3936685.
3. Ross, A.C. (2000). Vitamin A, retinoids and immune responses. In: Livrea, M.A. (eds) *Vitamin A and Retinoids: An Update of Biological Aspects and Clinical Applications*. MCBU Molecular and Cell Biology Updates. Birkhäuser, Basel.
4. Gombart AF, Pierre A, Maggini S. A Review of Micronutrients and the Immune System-Working in Harmony to Reduce the Risk of Infection. *Nutrients*. 2020 Jan 16;12(1):236. doi: 10.3390/nu12010236. PMID: 31963293; PMCID: PMC7019735.
5. Zentrichová V, Pechová A, Kovaříková S. Selenium and Dogs: A Systematic Review. *Animals (Basel)*. 2021 Feb 6;11(2):418. doi: 10.3390/ani11020418. PMID: 33562028; PMCID: PMC7915357.
6. Mehdi Y, Hornick JL, Istasse L, Dufrasne I. Selenium in the environment, metabolism and involvement in body functions. *Molecules*. 2013 Mar 13;18(3):3292-311. doi: 10.3390/molecules18033292. PMID: 23486107; PMCID: PMC6270138.