



Standard Process® Immune System Support

Age related changes in the immune system are suggested to be one of the main contributing factors that influence life expectancy, morbidity, and mortality in all species. Deficiencies of vitamins A, B, and D cause a progressive loss of power of the body surface to control the bacterial life in contact with it. Invading organisms in any disease, probably produce the far greater part of their effect through the toxins released or created by their activity. It is again, in the disposal of the toxins, that vitamins play an all-important part.

The most crucial time in an animal's life is that span between weaning and puberty, 6 to 20 weeks of age. Maternal antibodies are lost, the animal's own immune system is supposed to start functioning, and vaccinations are initiated, expecting the young developing immune system to recognize and respond to it. If an individual's immune system fails to respond adequately, several indicators may surface including dermal parasites, contracting a disease for which he had been vaccinated, an unthrifty state, or chronic illness.

Standard Process® **Canine Immune System Support™** and **Feline Immune System Support™** focuses not only on the vitamins and minerals necessary for a strong immune system, it also addresses the organs responsible such as thymus, adrenal, pituitary, hypothalamus, spleen, liver, and the lymphatic system. This product is formulated to support the body at the level of phagocytic function of immune cells, immune cell production, macrophage and lymphocytes, with antioxidants to reduce free radical formation and lipid peroxidation.

*"The best way to insure the highest degree of resistance for any given individual is to see that his dietary intake of vitamins is amply high."
- Dr. Royal Lee*

By dispensing this product to your patients you can assure the owner that you are doing EVERYTHING to help their pet live a longer, healthier, disease-free life for today and into the future.

Cases for Standard Process® Canine or Feline Immune System Support™

- All kittens and puppies from weaning to five months
- Cases of demodex or immune suppressed individuals
- Pregnant and geriatric pets
- Patients with cancer
- Dogs or cats with immune mediated diseases

References:

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What does PMG™ Mean?

What is Cytosol™ Extracts?

Dr. Royal Lee, the founder of Standard Process®, took great pains to analyze every aspect of plant and animal tissue before determining what was needed. As an engineer he designed many pieces of equipment that specifically enabled him to extract essential nutritional components from plants, animal organs, and the cytoplasm of glandular cells. Cytoplasm contains cellular organelles plus nutrients, such as enzymes, hormone precursors, and synergistic cofactors that are the biochemical building blocks essential to cellular metabolism in their respective tissue. Extracts of such can assist the day-to-day function of a system that is operating at sub-optimal level by supplying all these nutritional factors which the body can immediately use to its benefit.

What people are saying about using Standard Process® products for their pets...

“Many of our rescued Corgis come to us in a debilitated or obese condition. Using these products has made all the difference in the world in their recovery, health, and placement turn around. Life savers is what you are!”

- L. Moore, Pet's Second Chance Corgi Rescue

The letters “PMG” as seen on many product labels stands for protomorphogen™. In 1947, Dr. Royal Lee, the founder of Standard Process®, after years of research published his theories “Protomorphology: the Principles of Cell Auto-regulation.” “Proto” coming from prototype and “morphogen” for morphology. It is this which sets these products far apart from any other nutritional supplements.

A protomorphogen is a chromosome end product made in the nucleus of the cell. It is that cellular chromosome component that is responsible for morphogenic determination of cell characteristics. It is the smallest unit of the gene system that guides the cell into its hereditary form as it grows, develops, or repairs itself. While PMGs are generally thermostable up to 700°C, oxidation can destroy some of the growth influencing potential of PMG. Without sufficient PMG in its chromatic the cell degenerates, de-differentiates, becomes senile and dies.

So how is PMG regulated? These tissue specific mineral containing nucleoproteins are antigenic in nature and stimulate the response of natural tissue antibodies (NTA). The NTAs control the level of extracellular protomorphogen in blood and lymph. Normally the body maintains a balance between PMG and NTA. When the NTAs exceed the peripheral circulating PMG level, the situation exists where the natural tissue antibodies could actually attack the diseased organ or tissue itself! Hence the need for PMGs. We can see many patients exhibiting this in auto-immune disease.

Introducing external tissue specific protomorphogen via the alimentary route can redirect the abundant natural tissue antibodies away from the organ. While PMG used in Standard Process® products is derived primarily from bovine and ovine species, a dog allergic to beef, for example, will not have the same allergic response to PMG because it is not protein derived from muscle.