



Standard Process® Canine Adrenal Support™

Stress, toxins, poor nutrition, chronic use of corticosteroids, and other systemic diseases can interfere with the optimal function of the adrenal glands. They are an integral part of the Autonomic Nervous System (ANS), the balance between the “fright or flight” and the “breaks” or slowing down function for a body. When the communication lines from the adrenal glands to the other endocrine organs (thyroid, pituitary, hypothalamus, pancreas, etc.) and components of the ANS, including the digestive tract, are reduced, the entire body can become at effect of almost anything to which it is exposed. Virus, bacteria, and other harmful organisms can more readily take hold and cause damage and disease.

The adrenal glands, located near the kidneys, keeps a body alert and ready to respond to life’s many challenges. We can optimize their function anytime they are put in a potential stressful condition by using whole food nutritional support. While in many situations it may only be a short term, other pets may require lifelong support to maintain a better quality of life - one that is strong and more resistant to disease.

Some of the organic nutritional components that Standard Process uses to support the adrenal glands includes rice bran, buckwheat, and alfalfa juice as a source of whole vitamin complexes and chelated minerals. Animal tissue concentrates and extracts from bovine adrenal, pituitary, thyroid, liver, kidney, and porcine duodenum is used to help specific organ function. Eleutherococcus senticosus (Eleuthero) is a wonderful tonic herb that has been shown to assist adrenal glands in responding to environmental and metabolic stressors and aid in supporting the immune system is also included.

Nutrition can be more than simply what is in the bag. For our pets safety it is very important to know every component that is included in the meals we provide. Standard Process is committed to the quality of their products from the seed that is planted to the supplements on your shelf. Select Standard Process **Canine Adrenal Support™** to help dogs in times of adrenal stress or lack of optimal function.

Cases for Standard Process® Canine Adrenal Support™

- Increased or reduced adrenal function (Cushing’s or Addison’s)
- Stress, fatigue, immune deficiency, or with corticosteroids and during chemotherapy
- Allergies, hypoglycemia, respiratory disorders
- Any condition that impairs optimal adrenal function

References:

- *Nutrient Requirements of Dogs and Cats*, The National Academies Press, Washington DC. 2006.
- Hand, Thatcher, Remillard, Roudebush: *Small Animal Clinical Nutrition* 4th Edition, Mark Morris Institute, 2000.
- *Lectures of Dr. Royal Lee, Volume II*, Salene River Press, (970) 416-8758.
- Product Information, Standard Process, Inc.



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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 even 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 of these nutritional factors which the body can immediately use to its benefit.

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

“We had two other dogs in the past with Cushing’s Disease. None have done as well as Baxter with the Canine Adrenal Support. All of his blood tests are normal!”

- D. LeMoine

What does PMG™ Mean?

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, porcine, 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.