



Standard Process® Enteric Support

The intestines is the largest lymphoid organ of the body with 40% of all immune cells and 80% of the total immunological secreting cells of the dog being in the gut associated lymphoid system. Food or bacterial antigens that escape this are likely to induce immune reactions. Amazingly this could result in organ disease such as glomerulonephritis, hemolytic anemia, idiopathic polyarthritis, uveitis, atopy, and dermatitis.

There are a few steps that can be taken to prevent a breakdown in the GI/immune/endocrine/balance. Maintaining the integrity and function of the intestinal mucosa and its motility is the first target point in securing a supportive barrier. Quantity and quality of gastric, biliary, and pancreatic secretions form a base of balance for further digestion and assimilation. Integrating both intra- and extra-intestinal regulatory systems such as endocrine and the autonomic nervous system bring a stabilizing force to preventing future functional imbalances.

Canine Enteric Support™ and **Feline Enteric Support™** are designed to do just that! A large focus is on immune function. Specific protomorphogen™ and cytosol™ extracts and tissue concentrates can help improve stomach processing, bile secretion, and pancreatic cell biochemistry and their ability to respond to physiological demands. Chlorophyll is included for healing and minor detoxification and aloe vera juice for healing and inflammation. Mushroom, pea vine juice and wheat germ oil give the product many whole vitamin complexes and antioxidants. Select these products for any dog or cat needing short or long term dietary support for gastrointestinal malfunction.

Cases for Standard Process® Canine or Feline Enteric Support™

- Recovery from Parvovirus or Feline Distemper infection
- Irritable Bowel Syndrome, colitis, pancreatitis
- Chronic episodic vomiting and/or diarrhea
- Gastrointestinal parasitism with or without weight loss
- Food allergies

References:

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- National Research Council. *Nutrient Requirements of Dogs and Cats*. *The National Academies Press*, Washington, DC, 2006.
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INTEGRATIVE VETERINARY
EDUCATION, INC.

Ava Frick, DVM
1825 Denmark Road
Union, MO 63084

Phone: 636-583-6293
Fax: 636-584-0371

E-mail: dravafrick@charterinternet.com
www.petbodybuilders.com

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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 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...

“Matthew is doing so incredibly much better that it’s hard to believe how awful it was before. Thank you from the bottom of my heart.”

- G. Hall

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 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.