

FELINE CARDIAC SUPPORT

Feline Cardiac Support is a nutritional supplement formulated with ingredients known as functional foods. These are foods that have been shown to benefit various organs and tissues in the body. **Feline Cardiac Support** is formulated to provide support for the myriad of tissues involved in cardiovascular health: myocardium, nerve and conductive tissues, liver, kidneys, adrenal glands, vascular endothelium, inflammatory mediators, blood quality, and blood flow dynamics. These functional food ingredients enhance cardiac (and other tissue) ability to respond to metabolic demands while promoting the heart's ability to rebuild and regenerate.

Indications for use:

- General cardiac support
- Patients with reduced cardiac function or with increased cardiac demand
- Patients with conditions that increase cardiac workload
- Patients that are undergoing cardiac pharmaceutical therapy
- Clinical signs associated with cardiac dysfunction including reduced activity, coughing, dyspnea, and ascites
- Abnormal cardiac auscultation, ECG, thoracic radiographs, and echocardiography

Systems Supported:

- **Heart** – primary support for the heart mediated by heart PMG, L-carnitine, *Cratagegus oxyacantha*, buckwheat leaf juice and seed, pea vine juice, ribonucleic acid, rice bran, and nutritional yeast
- **Vasculature** – primary support for the vascular endothelium mediated by buckwheat leaf juice and seed, and orchic extract
- **Autonomic nervous system and nerves** – secondary support for the heart mediated by alfalfa juice, orchic extract, brain, nutritional yeast, and rice bran
- **Liver** – tertiary support of the heart mediated by support of the kidney by desiccated kidney and buckwheat leaf and seed

Whole Food Ingredient Sources:

- **Tissue desiccates** – adrenal, liver, kidney, and spleen
- **Vitamin A complex** – liver and kidney
- **Vitamin B complex** – nutritional yeast, oat flour, rice bran
- **Vitamin C complex** – alfalfa juice, adrenal
- **Vitamin E complex** – pea vine juice and wheat germ oil
- **Bioflavonoids** – buckwheat leaf juice and seed
- **Minerals** – alfalfa juice, kelp and bone meal
- **Antioxidants** – spleen, liver, kidney, pea vine juice, and wheat germ oil
- **Botanical phytonutrients** – *Cratagegus oxyacantha*, and *Emblica officinalis*
- **Protomorphogens** – heart and veal bone

Individual Ingredients:

Cytosol extracts – derived from cell cytoplasm, contain enzymes, hormone precursors and synergistic cofactors produced by the cell. Serve as building blocks for cellular metabolic end products to be utilized by the cell.

- **Bovine adrenal Cytosol™ extract**
- **Bovine heart Cytosol™ extract**
- **Bovine orchic Cytosol™ extract**

Bovine adrenal – glandular protein source, general adrenal support

Bovine kidney – glandular protein source, general kidney support

Bovine Heart PMG™ extract – supports local nutritional environment

L-carnitine – important amino acid, stimulates breakdown of fats in mitochondria, shown to beneficially influence the bioenergetics of cardiac function (Ettinger 2000).

Bovine liver – deliver vital substances to liver tissues, can be critical in the process of replenishing depleted cellular supplies of key factors.

Bovine/ovine spleen – contain high levels of superoxide dismutase, an antioxidant which has been shown to reduce the damaging effects of hypoxia by acting as a free radical scavenger.

Rice bran – excellent source of lipids, proteins, vitamin B complex, inositol and choline. Important for cell energy reactions, antioxidant, vitamin E

Ribonucleic Acid (RNA) – nucleic acid from cell cytoplasm and nucleolus, opens capillary beds for increased circulation, supports nuclear chromatin synthesis

Kelp – seaweed, excellent source of trace minerals

Wheat germ oil – antioxidant, rich source of whole vitamin E complex, cell membrane health

Alfalfa juice – source of bioavailable protein, vitamin A, C, E, K complexes, carotenoids, chlorophyll, calcium, potassium, phosphorus, isoflavonoids and triterpene saponoids. Each of these factors provides direct and indirect benefits for the heart.

Calcium lactate – bioavailable form of calcium

Crataegus osyancantha – known as Hawthorn, a well-known heart and vascular tonic

Nutritional yeast – provides a range of the whole vitamin B complexes

Pea vine juice – source of whole vitamin E complex. Important antioxidant

Tilandsia usneoides – found to contain significant amounts of various minerals, chlorophyll, and most of the B vitamins. Supports tissue healing.

Oat flour – Vitamin A source, supports capillary integrity.

Bone Meal - provides cellular factors from immune cells in the marrow