

# Cardiotrophin PMG®

## Helps Maintain the Healthy Functioning of the Heart and Cardiovascular System

The heart begins to beat well before our birth, pumping oxygen and nutrients to trillions of cells throughout our bodies during our entire lifetime. The heart is a remarkable pump, moving more than 3,000 gallons of blood through 60,000 miles of blood vessels every day, resting only between beats. The heart is actually two separate pumps: a right ventricle that pumps the blood through the lungs and a left ventricle that pumps the blood through the peripheral organs and body.†

## How Cardiotrophin PMG Keeps You Healthy

### Maintains cellular health

Protomorphogen™ extract is the brand name of Standard Process' extracts derived from nucleoprotein-mineral molecules. The foundation for the function of these uniquely formulated nucleoprotein-mineral extracts comes from the antigen-antibody reaction that takes place during normal cell maintenance. The antigenic properties promote healthy cellular division, function, and growth. When a tissue needs support, at least a dozen different compounds are formed that can cause white blood cells to travel together toward the compromised area. These compounds include degenerative products of the tissues themselves. They strongly activate the macrophage system, and within a few hours, the macrophages begin to devour the destroyed tissue byproducts. At times, the macrophages can also affect the structure of the remaining healthy cells. The bovine heart PMG™ extract in Cardiotrophin PMG appears to neutralize the circulating antibodies, thereby contributing to the maintenance of cellular health.†

### Supports a healthy heart

Cardiotrophin PMG contains naturally occurring coenzyme Q<sub>10</sub> complex. Coenzyme Q<sub>10</sub> complex is a vitamin-like substance, well established in scientific literature as an important nutrient in maintaining healthy cardiovascular function. One of the many functions of coenzyme Q<sub>10</sub> is to provide an antioxidant effect to help scavenge free radicals.†

Calcium is also an important nutrient in supporting sound cardiovascular function. Calcium lactate is a very soluble calcium salt and highly bioavailable—it changes to calcium bicarbonate (the type used by the body) in one chemical step. Calcium lactate is highly soluble in water (a neutral pH) and does not depend on acid conditions to perform its function.†

### Sustains metabolic efficiency

While magnesium is present in most cells in only minute quantities, it plays an important role in human metabolism, as does its partner, calcium. Magnesium functions in such reactions as nerve conduction and nerve excitability, transfer of energy, muscular activity, and many other specific processes. Magnesium functions as a cofactor, assisting enzymes in catalyzing many chemical reactions. Magnesium and calcium are synergistic, meaning that what they do for the body together, they cannot perform on their own.†

*Please copy for your patients.*

**GF** This product contains less than 10 parts per million of gluten per serving size or less than 20 parts per million per the suggested use listed on each product label.

†These statements have not been evaluated by the Food & Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.



Introduced in 1952

**GF**

**Content:**

90 tablets

**Suggested Use:** One tablet per meal, or as directed.

**Supplement Facts:**

Serving Size: 1 tablet

Servings per Container: 90

|          | Amount<br>per Serving | %DV |
|----------|-----------------------|-----|
| Calories | 1                     |     |
| Calcium  | 20 mg                 | 2%  |

**Proprietary Blend:** 185 mg

Bovine heart PMG™ extract and magnesium citrate.

Other Ingredients: Calcium lactate, cellulose, and calcium stearate.

*Each tablet supplies approximately:  
120 mg bovine heart PMG™ extract.*

**Sold through health care professionals.**



800-558-8740 | standardprocess.com

# Cardiotrophin PMG®

## What Makes Cardiotrophin PMG Unique

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### Product Attributes

#### Ingredients are derived from whole food sources

- › Each tablet supplies 120 mg bovine heart PMG™ extract
- › Contains naturally occurring coenzyme Q<sub>10</sub> from bovine heart PMG™ extract

#### Contains Protomorphogen™ extracts

- › Standard Process uses a unique manufacturing method of deriving tissue cell determinants from animal glands and organs
- › Help provide cellular support and rehabilitation to the corresponding human tissues
- › Important antigenic properties of nucleoprotein-mineral determinants are the foundation of the product†

#### The calcium lactate in Cardiotrophin PMG is a pure-vegetable source of calcium

- › Not derived from a dairy source

### Manufacturing and Quality-Control Processes

#### Low-temperature, high-vacuum drying technique

- › Preserves the enzymatic vitality and nutritional potential of ingredients

#### Not disassociated into isolated components

- › The nutrients in Cardiotrophin PMG are processed to remain intact, complete nutritional compounds

#### Degreed microbiologists and chemists in our on-site laboratories continually conduct bacterial and analytical tests on raw materials, product batches, and finished products

- › Ensures consistent quality and safety

#### Vitamin and mineral analyses validate product content and specifications

- › Assures high-quality essential nutrients are delivered

### Whole Food Philosophy

Our founder, Dr. Royal Lee, challenged common scientific beliefs by choosing a holistic approach of providing nutrients through whole foods. His goal was to provide nutrients as they are found in nature—in a whole food state where he believed their natural potency and efficacy would be realized. Dr. Lee believed that when nutrients remain intact and are not split from their natural associated synergists—known and unknown—bioactivity is markedly enhanced over isolated nutrients. Following this philosophy, even a small amount of a whole food concentrate will offer enhanced nutritional support, compared to an isolated or fractionated vitamin. Therefore, one should examine the source of nutrients rather than looking at the quantities of individual nutrients on product labels.

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Studies on nutrients generally use large doses and these studies, some of which are cited below, are the basis for much of the information we provide you in this publication about whole food ingredients. See the supplement facts for Cardiotrophin PMG®.

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Leibovitz B. 1991. *Nutrition Update*. Vol.5; No. 2.  
Magnesium in Human Nutrition. U.S. Department of Agriculture Report. No. 19. 11.  
Morita K., et al. 1995. *Journal of Thoracic and Cardiovascular Surgery*, 110. 1221-1227.  
Pfeiffer C.C. 1978. *Magnesium, Zinc, and Other Micro-nutrients*. 102.  
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