

HEART RESPONSE™



Comprehensive Support for a Healthy Heart!

Today's modern lifestyle, filled with stress, pollution, overprocessed and fatty foods, and lack of exercise, places great strains on the cardiovascular system. Source Naturals HEART RESPONSE is a broad-range formula that supports cardiovascular health, especially heart muscle contraction, healthy circulation and the generation of cellular energy.

HEART RESPONSE features clinical potencies of the renowned heart botanical, hawthorn, and significant amounts of the energy nutrients, coenzyme Q10 and carnitine, along with additional nutrients and herbs. Each daily use supplies 600 mg of hawthorn, the same amount used in recent research.



Supports Heart Health

HEART RESPONSE was formulated to include key nutrients and herbs known to support the cardiovascular system.

Hawthorn: Hawthorn, a rich source of flavonoids and procyanidins, has been used traditionally all over the world as a strengthening circulatory and heart tonic. Modern research has documented that hawthorn increases coronary blood flow and strengthens the contraction of heart muscle. Hawthorn is also an antioxidant, which scavenges and neutralizes destructive free radicals. It is only when cholesterol is oxidized that it impacts the integrity of arteries.

Coenzyme Q10: HEART RESPONSE supplies 60 mg daily of CoQ10, a key enzyme in the Electron Transport Chain, the pathway that generates 90% of the ATP “energy currency” needed by the body. Heart muscle requires huge amounts of energy to perform efficiently—it beats more than 100,000 times each day, pumping more than 1,000 gallons of blood through the body. The heart utilizes ATP as an energy source for muscular contraction. CoQ10 also is a fat-soluble antioxidant.

L-Carnitine: Carnitine is an amino acid-derived substance that supports heart muscle metabolism. Carnitine is needed to carry long chain fatty acids into the cell mitochondria, where they undergo oxidation to generate energy. The heart utilizes fatty acids as a preferred energy source for its metabolism. HEART RESPONSE delivers 300 mg per day of carnitine.

Taurine and Magnesium: Magnesium and taurine work closely together in the body to help maintain the normal electrical rhythm of the heart. Taurine comprises more than 50% of the free amino acid pool in our hearts, and has many electrophysiological effects on cardiac muscle cells. Alterations in magnesium levels can have profound effects on the heart. Magnesium is involved in autonomic control

of the heart through several mechanisms.

Bromelain: Bromelain is an enzyme mixture prepared from pineapple stems. Pineapple has been used for its health benefits for more than 500 years.

Grape Seed Extract: Grape seed is a source of procyanidins. These plant constituents are strong antioxidants that inhibit lipid peroxidation and scavenge free radicals. In vitro studies have demonstrated that procyanidins support the integrity of connective tissue.

Garlic: The use of garlic for its health benefits predates written history. Garlic’s volatile oil includes sulfur-containing compounds such as allicin, which are considered to be important biological constituents.

Selenium: Selenium is an essential trace mineral that is necessary for the activity of the important antioxidant glutathione. Antioxidants are crucial for protecting cholesterol from oxidation, which in turn helps to maintain healthy blood vessels.

B-Vitamins: Preventing an undesirable buildup of homocysteine levels may help support the integrity of arteries. Vitamins B-6, B-12 and folic acid are critical to the regulation of homocysteine levels.

You can count on Source Naturals’ expert formulators to bring you a product based on the most up-to-date nutritional research. HEART RESPONSE combines traditional botanicals and cutting-edge nutrients, scientifically formulated to deal with many aspects of cardiovascular health. It is available in bottles of 30, 60 and 90 tablets.

References

- Heinicke, R.M. et al. 1972. Effect of bromelain (ananase) ... *Experientia*. 28(7):844-5.
- Karpati, G. et al. 1975. The syndrome of carnitine deficiency. *Neurology*. 25:16-24.
- Schmidt, U. et al. 1994. Efficacy of the Hawthorn (*Crataegus*) preparation L1 132 ... *Phytotherapy* 1:17-24.
- Upton, R. ed. *Hawthorn Leaf with Flower – Crataegus spp.* Santa Cruz: American Herbal Pharmacopoeia, 1999.



SOURCE NATURALS®

Strategies for Wellnesssm

The above information has not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.