

# True

Health is a matter of trust

RESULTS  
OF OUR  
RESEARCH



Approximately 30-40 % of human body weight consists of the muscle weight. There are three types of muscles in the body: skeletal, smooth and cardiac muscles, with each one having a very specialized structure and functions.

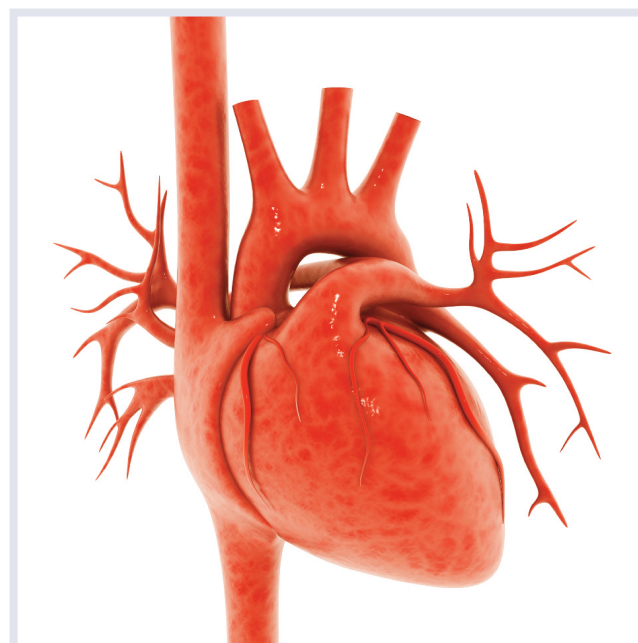
## Micronutrients support the Function of Heart Muscle

**Skeletal muscles** are the most abundant types of muscles. Attached to the skeleton, they help in the movement of bones. They are also called striated or voluntary muscles, because movement of skeletal muscles can be controlled voluntarily. Each of the skeletal muscles is supplied by a specific nerve to coordinate voluntary movements. Usually multiple muscles are required to produce any particular movement.

**Smooth muscles** are present inside of hollow organs like the stomach, intestines, and blood vessels. Their main function is to move substances through the organ. Smooth muscles are also called non-striated, or involuntary muscles because their movement is directed by the autonomic nervous system and is not under our voluntary control.

**Cardiac muscles**, as the name suggests, are found in the heart. These are specialized muscles as they are structurally similar to skeletal muscles (striated). Functionally, however, due to their involuntary nature they resemble the smooth muscles. These muscles are present only in the heart and are responsible for pumping blood. Another unique characteristic of cardiac muscle is that its contraction and relaxation rhythm is under

the control of the “natural pacemaker” present within the heart (sinoatrial node), which is also made of cardiac muscle tissue. Because of this property, cardiac muscle is considered auto-rhythmic by the cardiac conduction system.



The heart is the only muscle that is constantly in motion. For its optimal function it must be regularly supplied with essential micronutrients.

## Micronutrients support the Function of Heart Muscle

Unlike skeletal and smooth muscles, the cardiac muscles are the only ones that have to work constantly at the same pace throughout our life. The human heart pumps approximately 5 liters of blood throughout the body every single minute. It is not surprising that cardiac muscles need a constant supply of nutrients to function continuously and optimally. When the body experiences chronic deficiency of essential micronutrients, the effects are distinctly noticeable with suboptimal heart function, which manifests in the form of various diseases such as cardiomyopathy, heart valve diseases, irregular heartbeats (arrhythmias), and heart failure. Cardiomyopathy is a disease in which the heart muscle becomes inflamed, enlarged, and rigid, essentially losing its elasticity. This results in reduced blood supply to all the organs in the body and its resultant consequences.

**According to our research, most of the diseases of the cardiovascular system occur due to chronic deficiency of certain nutrients**

**and can be prevented by appropriate supplementation. Specifically, the B vitamins, carnitine, taurine, and coenzyme Q-10 are critical micronutrients to support the metabolism and produce essential bioenergy required for optimal cardiac function. However, these micronutrients also need to be supported by other micronutrients that work in synergy with each other and increase the effect of the essential ones. We have seen that such synergy can be achieved by combining the above nutrients with vitamin C, alpha lipoic acid, alpha ketoglutarate and others. Our clinical studies concluded that a specific combination of micronutrients supports the healthy function of heart cells and gives optimum support and bio energy production in the heart muscle.**

## Important Health Information for All

This information is provided to you courtesy of the Dr. Rath Research Institute. Led by two former colleagues of two-time Nobel Laureate Linus Pauling († 1994) this Institute has become a leader in the breakthrough of natural health research in the field of cancer, cardiovascular disease and other common diseases. The Institute is a 100% subsidiary of the non-profit Dr. Rath Foundation.

The groundbreaking nature of this research poses a threat to the multi-billion dollar pharmaceutical "business with disease." It is no surprise that over the years the drug lobby has attacked Dr. Rath and his research team in an attempt to silence this message. To no avail. During this battle, Dr. Rath has become an internationally renowned advocate for natural health saying, "Never in the history of medicine have researchers been so ferociously attacked for their discoveries. It reminds us that health is not given to us voluntarily, but we need to fight for it."

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