

VEGETARIAN REJUVENZYME™

WHOLE-BODY™ SYSTEMIC ENZYMES



Researchers now understand that enzymes not only help us digest and assimilate vital nutrients, they also empower the functions of the entire body, from cleansing the tiniest arteries as we sleep, to energizing our muscles as we dance, to helping maintain the steady beats of our hearts as we run. Source Naturals VEGETARIAN REJUVENZYME is a proprietary blend of vegetarian proteolytic enzymes that provide deep metabolic support for an astonishing number of bodily systems, like

the immune and cardiovascular system, joint and cellular health, and inflammation response. Without enzymes, we cannot live, and without enough of the right types of enzymes, our health and well-being may become compromised.

The scientific research community continues to discover the profound impact that whole body systemic enzymes can have for major metabolic functions and for overall health and well-being. Source Naturals VEGETARIAN REJUVENZYME contains ingredients which work in a wide range of pH for efficient absorption and enhanced activity. Plant-based enzymes are suitable for vegetarians and those with allergies to animal-based enzymes. Source Naturals VEGETARIAN REJUVENZYME supports five of the dozen SystemiCare™ deep metabolic systems identified by Source Naturals as being critical for optimal health: Inflammation Response, Circulation, Structure/Connective Tissue, Immune Function, and Antioxidant Defense.



Strategies for Wellness SM

Inflammation Response

Our bodies have a wondrous, intricate system of defense - the immune system. This wide-ranging network of interconnected biochemical processes is amazingly sophisticated. These days, because we face so many environmental toxins and dietary imbalances that threaten our health, the immune system is forced to go into high gear fighting off these new threats. Ironically, in an attempt to protect us, our immune system can generate metabolic inflammation that may throw key systems off balance.

Whenever the body is harmed, blood in the injured area comes in contact with collagen which releases inflammatory messages - messages that call in the body's healing mechanisms. This causes the blood platelets to secrete glycoproteins on their cell membranes, causing them to aggregate and stick to one another, forming a mass. Fibrin and fibronectin, both proteins, cross link and form a matrix that traps proteins and particles to prevent blood loss. The fibrin-fibronectin matrix is the main structural support for the wound to heal. Collagen and platelets adhere to it and form blood clots.

After the wound heals, the body usually dispenses with the clot by dissolving it with systemic enzymes. This natural process is often blocked, however, by Plasminogen Activator Inhibitor type 1, or PAI-1. PAI-1 is a natural clot builder that inhibits the natural enzymes and mechanisms that dissolve clots and keeps the circulatory pathways clear. PAI-1 is set off by the same triggers that set off many types of inflammatory response. When PAI-1 is high, fibrinolytic activity and blood flow are hindered. High stress, high glucose levels and high amounts of adipose fat tissue

are associated with increased PAI-1 levels. This can lead to blood that is thick, sticky, and slower to move due to the presence of fibrins in the blood.

VEGETARIAN REJUVENZYME contains proteolytic (protein-digesting) enzymes, such as Neutral Bacterial Protease, n-zimes PA™, Protease AM and Nattozimes®, which are shown by research to have great potential as inflammation modulators. The proteases and antioxidant enzymes in VEGETARIAN REJUVENZYME may restore normal balance in the inflammation cycle through high fibrinolytic activity and the ability to inactivate pro-inflammatory cytokines. Bromelain selectively inhibits production of pro-inflammatory prostaglandin (PG-E2), while promoting anti-inflammatory prostaglandin PG-E1 to initiate a comforting effect on the body. Serrazimes® neutralizes the bio-chemicals of inflammation and supports blood cleansing. n-zimes PA™, Serrazimes®, Nattozimes®, and papain support healthy circulation and block histamine production.

VEGETARIAN REJUVENZYME contains ingredients which help the body support healthy inflammation response: Serrazimes®, Protease AM, bromelain, n-zimes PA™, ConcenTrace mineral blend, and papain.

Structure/Mobility Functions

Source Naturals VEGETARIAN REJUVENZYME can support connective tissue, joint flexibility, and healthy, beautiful skin. Specific proteases in the VEGETARIAN REJUVENZYME formula neutralize irritating biochemicals such as bradykinins and eicosanoids. The proteolytic enzymes, papain and bromelain, complement the body's normal systems for synthesis, repair and regeneration of

joint tissue. Amla, naturally high in vitamin C, has bioflavonoid constituents that help reduce cellular irritation and support normal joint, tendon and muscle function. Also, the vitamin C in amla is necessary to support collagen synthesis. ConcenTrace includes trace minerals which function as regulators or components of various enzyme systems for joint and tissue support.

The following ingredients support structure/mobility and tissue regeneration: amla, bromelain, papain, Serrazimes®, n-zimes PA™, and ConcenTrace mineral blend.

Healthy Heart and Circulation

Proteolytic enzymes in our formula support healthy circulation and heart function in multiple ways. Serrazimes® and Nattozimes® can act directly on the arteries to support healthy blood flow by breaking down fibrin, a web-like filament mesh which may form in veins, arteries and blood vessels. Bromelain reduces the formation of thrombin, the enzyme that converts fibrinogen to fibrin. Bromelain also stimulates the activity of plasmin, another proteolytic enzyme that dissolves fibrin. Lipases, found in n-zimes PA™, hydrolyze lipids and play a role in digesting fat within blood vessels. Rutin helps strengthen blood vessel structural integrity. The magnesium in ConcenTrace helps maintain normal heart rhythm.

The following ingredients in VEGETARIAN REJUVENZYME support heart and circulation function: bromelain, n-zimes PA™, papain, rutin, Serrazimes® ConcenTrace and Nattozimes®.

Respiratory and Immune System Support

The enzymes in VEGETARIAN REJUVENZYME support normal immune function

by promoting the proper breakdown and recycling of proteins in the bloodstream. In addition, glycolytic (carbohydrate digesting) enzymes, also known as amylases, play a role in normal histamine release. Those who consume excessive simple carbohydrates tend to suffer from histamine-related health problems. This may be due to depletion of total amylase required to digest excess carbohydrates. Protease AM supports normal mucous membrane activity in the sinuses and respiratory tract by digesting the cross-linked matrix of proteins that forms the support structure of mucus. Serrazimes®, derived from *Aspergillus oryzae* and *Aspergillus melleus*, provides respiratory, inflammatory, cardiovascular and immune support.

Vegetarian RejuvenZyme includes several ingredients which support immune and respiratory systems: n-zimes PA™, Bromelain, Protease AM, and Serrazimes®.

Antioxidant Defense

Every day the body is exposed to free radicals in the form of heavy metals, toxins, pesticides and food additives. This assault from our environment may weaken our immune systems and ravage our cells with oxidative damage. Free radicals are reactive molecules, atoms, or groups of atoms with an odd (unpaired) number of electrons. In order to achieve balance, they steal electrons from neighboring molecules in a process called oxidation. Rampant cellular oxidation is believed by many scientists to be a primary cause of aging. Antioxidants, such as rutin, and the bioflavonoids and vitamin C found in amla, provide critical protection against oxidation. Trace minerals in our formula also play key roles in normal cellular detoxification.

The following ingredients support antioxidant defense: amla, rutin, and ConcenTrace.

Whole-Body™ Systemic Enzymes

Source Naturals offers a product line of Whole-Body Systemic Enzymes, including: REJUVENZYME to support normal tissue regeneration, healthy inflammatory response and efficient circulation; NAT TOKINASE, for healthy circulation and cardiovascular support; SERRAPEPTASE for respiratory support and for the relief of minor pain from overexertion or from everyday activities; and BROMELAIN, for circulation, immune function and inflammation response.

Plant-Based Enzyme Therapy

Animal-based enzyme therapy offers a great many health benefits; however, there are a few notable drawbacks when compared to plant-based enzymes. Animal-based enzymes may be of concern for those with allergies to animal-based food products. The proteolytic enzymes from animal-based sources are sensitive to the low-pH environment of the stomach; they require enteric coating to survive the gastric environment in order to travel to the intestines, where they are absorbed into the bloodstream. Finally, research has shown that plant-based enzymes may be absorbed more efficiently than similar animal-based enzyme products, which allows them to respond rapidly to a wide variety of important metabolic actions.

Systemic enzymes are gaining well deserved recognition for their powerful ability to restore metabolic function by reaching deep into the root causes of systems imbalance. Source Naturals is pleased to partner with your local natural foods retail outlet so that you may have the opportunity to take charge of your health through direct intervention with VEGETARIAN REJUVENZYME. Our VEGETARIAN REJUVENZYME formula is designed to produce a high level of proteolytic activity and support a wide variety of bio-chemical reactions for health, vitality and comprehensive Bio-Aligned support.

References:

Riabokon EN. et. al. "The effect of Wobenzym on the atherogenic potential and inflammatory factors at the rehabilitation stage for patients who have had a myocardial infarct" *Lik Sprava*. 2000 Jul-Aug;(5): 111-4.

Maurer HR "Bromelain: biochemistry, pharmacology and medical use" *Cell Mol Life Sci*. 2001 Aug;58(9):1234-45.

Bohager, Tom *Enzymes: What the Experts Know* One Word Press: Prescott, AZ. 2006.

Tilwe, GH, et al. "Efficacy and Tolerability of Oral Enzyme Therapy as Compared to Diclofenac in Active Osteoarthritis of Knee Joint: An Open Randomized Controlled Clinical Trial." *JAPI* 2001, v (49) pp:617-621.



Strategies for Wellnesssm

www.sourcenaturals.com



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.