

Causes & Conditions of Immune Compromise:

AIDS and HIV	Poor Nutrition
Fungal Infection	CMV Virus
Allergy	Old Age
Bacterial Infection	Common Cold
Herpes	Radiation
Bronchitis	Diabetes
Mononucleosis	Athletic Training
Cancer	Emphysema
Parasitic Infection	Stress
Candidiasis	Epstein Barr Virus
Periodontal Disease	Surgery
Chronic Infection	Viral Infection
Chronic Fatigue Syndrome	Pneumonia

Quotes from Actual Scientific Research:

"Glucan (Beta-1, 3-D) has been shown to enhance macrophage production dramatically, and to increase nonspecific host resistance to a variety of bacterial, fungal and parasitic infections."

M.L. Patchen, Ph.D.
Department of Experimental
Hematology and Radiation Sciences
Armed Forces Radiobiology Institute
William Browder, M.D.
Department of Surgery
Tulane University School of Medicine

"Glucan was found to be an effective drug in inducing macrophage-mediated destruction in malignant lesions in animals and humans."

P. Mansell, M.D.
McGill University Cancer Research
Center Victoria Hospital, Montreal, Canada

"The Broad Spectrum of immunopharmacological activities of glucan includes not only the modification of certain bacterial, fungal, viral, and parasitic infections, but also inhibition of tumor growth."

Nicholas DiLuzio, Ph.D.
Department of Physiology
Tulane University School of Medicine

Immune
Enhancing Supplement

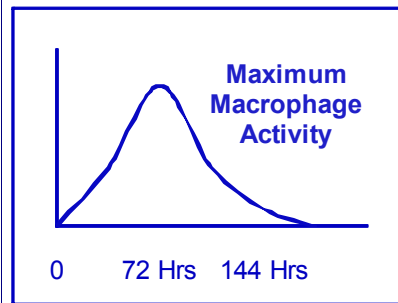
Beta-1,3-D

Glucan

Breakthrough in
Preventative
Nutrition

Potent Anti-Oxidant
Properties

Radioprotective
Effect
Safe, Non-Toxic



Fact:

When a single dose is administered, the macrophage activity will peak in 72 hours. Seventy-two hours later, the activity level returns to the previous plateau.

This information is intended for information purposes only and is not meant as a means of diagnosing or treating an illness.

What is Beta-1, 3-D glucan

Beta-1, 3-D glucan is a unique compound derived from the cell walls of yeast. Beta-1, 3-D glucan triggers an immune response in the body creating a system of defense against viral, bacterial, fungal, parasitic or neoplastic invaders. It also has potent anti-oxidant and free radical scavenging capabilities.

History of Beta-1, 3-D glucan

In the 1940's research yielded a substance that had immune activating properties called Zymosan. It was not known until the 1960's which element caused the response, when Nicholas DiLuzio at Tulane University experimented with Beta-1, 3-D glucan in humans began.

Scientific Validation

In one study, conducted by Dr. Peter Mansell, yeast beta glucan was injected into subcutaneous (under the skin) nodules of malignant melanoma. Subsequent biopsies of the sites found no evidence of melanoma only a collection of obviously activated macrophages.

Countless other studies have shown positive effectiveness of beta glucan on a myriad of conditions, including malignant ulcers of the chest following mastectomy, HIV infections, infectious complications from severe trauma, and radiation exposure. Beta glucan has been shown to increase the effectiveness of antibiotics and antiviral medications.

In the 1980's, a Harvard study described that there is a cascade of events that is triggered because of Beta-1, 3-D glucan, making the body into an "arsenal of defense". Beta-1, 3-D glucan may be the only and first true anti-aging supplement. It is a defense against the negative effects of infections, tumors, radiation exposure (including UV radiation from the sun. It is a safe and potent nutritional supplement, with free radical scavenging ability, as well as a nonspecific immune enhancing effect.

How Does It Work?

Beta-1, 3-D glucan works by activating the macrophages, or immune cells, which trap and engulf foreign substances, similar to the way a "Pac Man" works in the popular game. Also, the activated cells start a cascade of events that cause the entire system to be alerted and mobilized, in an entirely naturally activated sequence. The result is an amplified immune system response until the "invaders" are defeated.

Anti-Oxidant

Beta-1, 3-D glucan is a powerful free radical scavenger.

Radioprotective

Beta-1, 3-D glucan activated macrophages were able to scavenge debris and cellular breakdown caused by radiation. In today's world it is impossible to avoid some forms of radiation, such as:

- ◆ Airline Travel
- ◆ X-rays
- ◆ Routine Mammograms
- ◆ High Tension Power Lines
- ◆ Proximity to Nuclear Facilities
- ◆ Computer Terminals
- ◆ UV Rays from the Sun

Tissue Regeneration and Repair

Beta-1, 3-D glucan helps speed up the recovery of damaged tissue.

Adjuvant Effect

Beta-1, 3-D glucan helps other substance like antibiotics, antifungals and antiparasitics to work better.

Anti-Neoplastic Effects

Beta-1, 3-D glucan makes the macrophages recognize and destroy mutated cells.

Who Needs Beta-1, 3-D glucan?

People with impaired immunity from any cause; including people who are susceptible to infectious diseases, people with HIV infection, people undergoing radiation or chemotherapy, people over 40 whose immune system begins to slow through the aging process, and geriatric patients.

People who are exposed to radiation from external sources such as UV, or electromagnetic fields.

People who are in a chronic disease state or who have diabetes.

People under physical or emotional stress. Athletes and those who work out extensively.

People with a high risk of cardiovascular disease.

Common Questions:

Is it safe?

Beta-1, 3-D glucan is completely safe and nontoxic.

I am allergic to yeast. Will this cause a problem?

Although derived from a baker's yeast, Beta-1, 3-D glucan is a pure isolate and does not contain any yeast proteins that would cause an allergic reaction.

Are there any drug reactions that occur with Beta-1, 3-D glucan?

Beta-1, 3-D glucan enhances the effect of many antibiotic and cholesterol reducing drugs. There are no known adverse effects with pharmacological drugs.

Are the effects of Beta-1, 3-D glucan backed by scientific research?

Numerous scientific studies originating from prestigious institutions such as Tulane University, and Harvard Medical School, attest to the immune activating and protective effects of Beta-1, 3-D glucan.