

Organic Germanium Provides Optimal Oxygen Transport to All Tissues

Germanium 132 Creates an Oxygen Economy with Fast-Acting Effects

Germanium Sesquioxide 132 has the ability to rapidly and effectively transport and spare oxygen to cells, tissues and organs. This increase of oxygen throughout the body makes Germanium 132 more effective than vitamin E or selenium against:

- Radiation damage
- Free radicals associated with arthritis and other chronic degenerative diseases.
- Candida albicans, the yeast fungus
- Amyloidosis, the accumulation of amyloid in various tissues which, when advanced, engulfs and obliterates parenchymal cells and injures the effected organ. Amyloidosis is believed to be one of the primary causes of aging.⁽¹⁶⁾

Because of its uniform distribution throughout the body, this oxygenation affects all organs and tis-

GERMANIUM SESQUIOXIDE <i>Hypoallergenic, Organic</i> Carboxyethyl Germanium Sesquioxide	
Product No. 855	Fill Size: 30 vegetable capsules
Each capsules contains:	
Germanium Sesquioxide	- - - - - 150 mg.
Other ingredients: magnesium stearate, rice flour.	
Contains no animal products.	
Recommended Use: 1 capsule or more daily.	

sues. According to researchers, Germanium 132 “creates an oxygen economy with extremely fast-acting effects.” Those with Raynaud’s syndrome, for example, will feel warmth in the affected fingers and toes one-half hour after taking germanium. Healthy people will feel the warmth in a couple of minutes.”⁽¹⁵⁾

Unique Structure Gives Germanium 132 Remarkable Chemical and Biological Properties

Japanese researcher, Dr. Kazuhiki Asai, discovered the biological significance of germanium and first synthesized organic germanium. After synthesizing many germanium compounds and testing them for bioactivity, he successfully produced a water soluble, highly stable, non-toxic form of organic germanium identified as bis carboxyethyl germanium sesquioxide 132.^(1,16)

The unique structure of this synthesized organic germanium seems to account for its remarkable chemical and biological properties. Its small size, and perhaps other features, permit rapid diffusion and transport across membranes. Thus, it is widely and nearly uniformly distributed in tissues.⁽³⁾

How Germanium 132 works to create its profound oxygenation effect is not known. Researchers theorize that it facilitates oxygen entry into red blood cells and then turns into the tissues by acting as a sort of shuttle. Or, it may make the function more efficient as an electronic receptor by orienting oxygen on the electron-transport chain in the mitochondria.⁽¹⁵⁾

Dr. Asai suggests that the three oxygen atoms of germanium in the sesquioxide form strongly bond with hydrogen ions to produce a dehydrogenating reaction “which is the mechanism by which germanium eliminates harmful substances that cause disease in the body.” In his book, The Mira-

cle Cure: Organic Germanium, he says, “To insure that the body functions normally, hydrogen must be removed, but for complete removal, a large quantity of oxygen is needed. The germanium compound with its strong dehydrogenating effect takes the place of oxygen in combining with hydrogen to eliminate the latter from the body.”^(1,15)

Versatile Physiological Normalizer

Germanium 132 has demonstrated in extensive animal studies and clinical testing to be a versatile normalizer of physiological functions. For example, it had a marked blood pressure lowering effect on hypertensive human subjects and in genetically hypertensive rats; however, the effect did not extend into the hypotensive range even at higher doses.

In a study of 30 post surgical patients, over a period of weeks, Germanium Sesquioxide restored a variety of deviant blood parameters to their normal ranges, including pH, pCO₂, glucose, minerals (sodium, potassium, calcium, chloride), triglycerides, cholesterol, bilirubin and uric acid. Germanium 132 also brought blood hemoglobin levels up and white cell counts down to within their normal ranges.⁽⁷⁾

According to Dr. Parris M. Kidd, director of the Germanium Institute of North America, “Germanium 132 protects against bone mass decrease in osteoporosis, normalizing calcium metabolism,

possibly via an effect on parathormone production."⁽¹⁵⁾

Some individuals taking Germanium 132 as a supplement have also reported improved eye-

Anti-Viral, Anti-Tumor and Analgesic Effects

Studies on immuno-suppressed animals and on patients with malignancies or rheumatoid arthritis suggest that Germanium 132 normalizes the function of T-cells, B lymphocytes, antibody-dependent cellular cytotoxicity, natural killer cell activity and a number of antibody forming cells.^(7,9,14)

The anti-tumor and anti-viral effects of Germanium 132 are due at least in part to its role in the production of gamma interferon, the body's most powerful cancer and virus fighting agent. The effects of Germanium 132 on various immune parameters are almost identical to that of known IFN gamma interferon effects.⁽⁸⁾

In both animals and humans, Germanium 132 has been shown to increase gamma interferon in the blood, activate macrophage and NK cells, stimulate immunomodulation activity and the B-cell system and demonstrate anti-tumor and anti-viral activities.⁽⁸⁾

In addition, serum from mice treated with Germanium 132 exhibits anti-tumor activity against allogenic and syngenic tumors. The action is blocked by specific anti-IFN gamma interferon anti-serum.⁽⁸⁾ The mineral has been used in very high dosage (2 grams or more daily) in cancer therapy in Japan by Dr. Asai and others.^(15,18)

According to Dr. Kid, Germanium 132 "has dramatic analgesic effects which complement its anti tumor effects...apparently can enhance or substitute for morphine — reportedly 3-4 grams will eliminate pain of terminal cancer within 20 minutes."^(1,7,15)

In laboratory tests, the mineral has been found to potentiate the analgesic effect of morphine in mice and has shown direct inhibitory activity on monkey brain enkephalinase. It appears to relieve pain by enhancing the action of endogenous opioid-like peptides.^(11,12)

Non-Toxic Even at High Doses

Some forms of germanium, such as elemental germanium or germanium dioxide may accumulate in the body and cause adverse effects such as renal failure and even death.^(1,7,16)

When elemental (inorganic) germanium is drawn from the soil by plant life, it is transformed by the plant into organic germanium, a complex molecule containing a core of pure elemental germanium atomically bound to a large number of oxy-

gen atoms. However, germanium is found only in small amounts, even in medicinal plants such as ginseng and garlic.^(1,2)

Tests by Dr. Asai and the Japanese government have shown the germanium sesquioxide compound to be non-toxic even at extremely high doses. Studies indicate that oral doses of Germanium 132 in any amount are rapidly excreted (all traces of germanium are discharged from the body through the digestive tract within 20 to 30 hours); therefore, effects whether adverse or beneficial probably subside within 24 hours.^(1,7,16)

Germanium levels peak in the tissues within six hours following oral administration, but it is not retained significantly by any organ.⁽⁷⁾

WARNING: This information is provided for health care professionals only. **This publication and the product contained herein have not been approved or evaluated by the Food and Drug Administration. This publication, and the product contained herein are not intended to diagnose, treat, cure or prevent any disease.** The product relates to nutritional support only.

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