



Glutathione (GSH) Liposome

Advanced Nanosphere Technology™
120 mL/4 oz. NPN 80044257

Matrix Nutritional Series **Mother of all Anti-Oxidants/Maestro of the Immune System**

Patient Reference

Matrix Nutritionals Series was designed as an eclectic offering for the Physica Energetics line of remedies primarily to assist in the "reactivation of the mesenchyme" (Dr. Reinhold Voll), via the nutritional complement pathways. These pathways are present in every system throughout the body and require balanced attention. In keeping with the principles of BioEnergetic Medicine, the remedies nourish and support these systems without punishing them with overstimulation or imbalancing factors, which, ultimately, is counterproductive. This approach has been carefully and respectfully designed to provide the necessary natural (organic where available), synergistic factors in proper energetic and biochemical ratios, to ensure assistance towards yielding a deep and lasting result. They are not to be confused with replacement therapy nutraceuticals that may seem to help for the moment, until the patient stops taking them or the condition is driven deeper. These remedies honour The Legacy of BioEnergetic Medicine, and are known by both patient and practitioner to be exceptionally effective.

Methylation and the production and recycling of glutathione are two of the most important biochemical functions of a healthy body.

Glutathione (GSH) is a tripeptide thiol (sulfur-containing) compound molecule that is made inside every cell in the human body and is found in its highest levels in the liver, eyes, spleen, pancreas and kidneys. But the highest concentration of glutathione is found in the liver, making it critically important in the detoxification and elimination of free radicals. Accumulation of these compounds can result in **oxidative stress**, which occurs when the generation of **free radicals in the body exceeds the body's ability to neutralize and eliminate them.**

Glutathione then, is singularly the most important antioxidant produced by the body as it **protects cells against the oxidative stress of free radicals.** As such it protects highly vulnerable **DNA from damage, binding heavy metals, removing toxins and enhancing immune function,** particularly viral infections.

Its antioxidant property makes it vital to white blood cells (lymphocytes) as it allows them to reach their full potential during the **oxygen-requiring** activity of the body's **immune response.** Other antioxidants in the body depend on glutathione as well. Glutathione **recycles vitamins C and E after they have been oxidized,** therefore playing a decisive role in their normal function. Enzymes responsible for its synthesis and recycling require several vitamin and mineral cofactors eg. magnesium, riboflavin and selenium.

Transporting glutathione from the digestive system into the blood is a challenging process. Most oral glutathione supplements have been shown to be poorly absorbed and frankly a waste of money. **Physica Energetics' highly assimilable reduced glutathione (GSH), enters the bloodstream via liposome delivery (by-passes the digestive system and the first pass of the liver) as it becomes concentrated in the lymphatic**

immune cells of the small intestine (GALT, Peyer's patches, Malt, etc.) which are specifically targeted to their binding sites via an ionic ligand marker.

Some IV docs are suggesting that these proprietary nanosphere liposomes deliver equal and often higher rates of glutathione concentration in the blood and tissues than IV drips/pushes. Remember, though while it's important to have correct serum glutathione levels, **tissue concentration** is what we seek to achieve.

Lower levels of zinc are correlated with low levels of glutathione. Glutathione is also crucial for proper **mitochondrial function and energy production.**

Increased liver peroxides go hand in hand with decreased glutathione activity.

Glutathione is also the most **critical and integral part of the detoxification system.** All xenobiotics, including free radicals, pathogens and heavy metals, like mercury, "stick" onto glutathione (the "SH" in "GSH" is the sulfur-hydrogen ion attached to the molecule) and are then carried out of the body through bile and stool. Chronic illness as well as long term toxic exposure to xenobiotic overload can not only deplete stores of glutathione but also inhibit its production.

Assimilable and deliverable (GSH) Glutathione is a significant and vital step in every detoxification program helping to significantly reduce the risk of xenobiotic translocation, reabsorption and detoxifying organ and systems' overload, homotoxicologically speaking.

One teaspoon contains: (Gluten Free/VEGAN)

Reduced L-Glutathione (GSH) 500 mg, Phosphatidylcholine 160 mg

Proprietary nano-liposome greatly increases absorption and assimilation rates equivalent to @5 times the listed dose amount.
Refrigerate after opening (do not freeze).

