



ZINC-ORO Liposome Composite

Zinc Orotate | Zinc Bisglycinate Chelate
Immune Causal Chain Complex | Zinc-Ionophores
90 Veggie Capsules.

Matrix Nutritional Series Immune | Respiratory & Gut Barriers | Neural | Antioxidant | Signaling | DNA/RNA

Patient Reference

The Matrix Nutritionals Series was designed as an eclectic offering for the Physica Energetics line of synergistic remedies to correct and support the nutritional **Causal Chain communication pathways**. These pathways are present in every system throughout the body. In keeping with the principles of functional, bio-energetic medicine, the remedies nourish and support these systems without punishing them with overstimulation or imbalancing factors which ultimately proves to be counterproductive. The Matrix Nutritional supplements' approach has been scientifically and energetically designed to provide the required natural, symbiotic, factors in the correct *biological* and *bioenergetic ratios*, to provide restorative assistance to compromised body, mind and heart challenges. They are not to be confused with solely replacement therapy nutraceuticals that may seem to help for the moment, until the patient stops taking them or the condition is driven deeper. Multidisciplinary-leaning practitioners, who clinically appreciate the masterful blend of art and science, quickly discover that these timely remedies become an integral part of their practice.

Zinc is a vital microelement that operates in every cell of the body, but it's a non-fat-soluble mineral that can't move through the fat-based cell membrane. As such, zinc is typically difficult to absorb and be assimilated. It needs help to cross the cell membrane from special transport systems to penetrate inside the cell to stop viral replication. Intracellular mineral delivery is important because many cytoplasmic and mitochondria enzymes require minerals in order to be activated

High quality nano-liposome Zinc Orotate/Bisglycinate chelates in a clinical base of bioavailable botanical zinc-ionophore binding compounds, organic copper and Shilajit composites insures comprehensive mineral transport and assimilation trajectory to systemic and local target sites.

Lower levels of zinc are correlated with low levels of glutathione, an important aspect of the detoxification system. Zinc is required to support proper immune function. Even mild zinc deficiency, which is widely spread in contrast to severe zinc deficiency, depresses immunity. Zinc may also reduce the severity of cold symptoms by acting as an astringent on the trigeminal nerve. *"White blood cells without zinc, are like an army without bullets"* reports our friend, Dr. Klinghardt.

Orotate/Bisglycinate chelates: Neutrally charged zinc-orotate (orotic acid/B-13) and chelated bisglycinate are two of the most highly bioavailable and fastest distribution forms of zinc. Neutrally charged ZINC orotate salts pass easily through cell membranes to target sites. Zinc bisglycinate chelate amplifies the bioavailability of elemental zinc as it is bonded with glycine amino acid allowing it to be easily tagged, targeted, assimilated and transported without the complications of digestive enzyme degradation.

Stomach friendly. Note: these are in their elemental form = accurate amounts of actual zinc! Compared to the total amount of a mineral in a remedy the **'elemental mineral'** is the amount of the mineral that is

actually used by the body.

Nano-Liposome: The protective powers of nano-liposomes are one of the most bioavailable transport and delivery systems for zinc, circumventing potency dilution in the digestive tract and bypassing the first pass of the liver thereby providing more zinc directly to the target cells.

Zinc-Ionophores: Quercetin & Green Tea (EGCG) exert polyphenolic ionophore action on a lipid membrane which raises zinc levels in the cells creating a noteworthy impact on the multi-biological actions of zinc. These function as zinc-ionophores, transporting zinc directly in and out of the cell cytoplasm maximizing the clinical effects of zinc. Dabbagh-Bazarbachi H. Zinc ionophore activity of quercetin and epigallocatechin-gallate: from hepa 1-6 cells to a liposome model. *J Agric Food Chem.* 2014;62(32):8085-8093

Quercetin: May not only block the ability of viruses to infect cells, but may also prevents virus replication. It is well known to ameliorate chronic diseases and aging processes in humans, and its antiviral properties have been investigated for its pleiotrophic activates in numerous studies. Evans JM, Luby R, Lukaczer D, et al. The functional medicine approach to COVID-19: virus-specific nutraceutical and botanical agents. *Integr Med.* 2020;19(Suppl 1):34-42. <https://www.ifm.org/news-insights/functional-medicine-approach-covid-19-additionalresearch-nutraceuticals-botanicals>

Wu, Wenjiao et al. "Quercetin as an Antiviral Agent Inhibits Influenza A Virus (IAV) Entry." *Viruses* vol. 8,1 6. 25 Dec. 2015, doi:10.3390/v8010006

Green Tea EGCG has been found to have antiviral activity against a wide range of DNA and RNA viruses, especially in the early stages of infection by preventing viral attachment, entry and membrane fusion Kaihatsu K. Antiviral mechanism of action of epigallocatechin-3- o-gallate and its fatty acid esters. *Molecules.* 2018;23(10):2475

Molybdenum (as Bisglycinate chelate) processes proteins & genetic material (DNA). It helps break down drugs & toxic substances that enter the body to activate enzymes that help break down harmful sulfites from building up in the body.

Schwarz G, Mendel RR, Ribbe MW. *Molybdenum cofactors, enzymes and pathways.* *Nature.* 2009;460(7257):839-847.