

# Zinc Glycinate™



U.S. Patent # 5516925

## Clinical Applications

- Colds, Flu, Infections
- Skin Health/Aging/Conditions
- Prostate Health
- Growth Retardation
- Delayed Wound Healing
- Poor Taste Acuity



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*Zinc Glycinate™ is bioavailable and readily absorbed as an intact chelate. It differs from other forms of zinc supplements in that it does not get ionized in the gut before it is absorbed. This totally-reacted, nutritionally functional zinc amino acid chelate appears to be metabolized in the body right at the target tissue.*

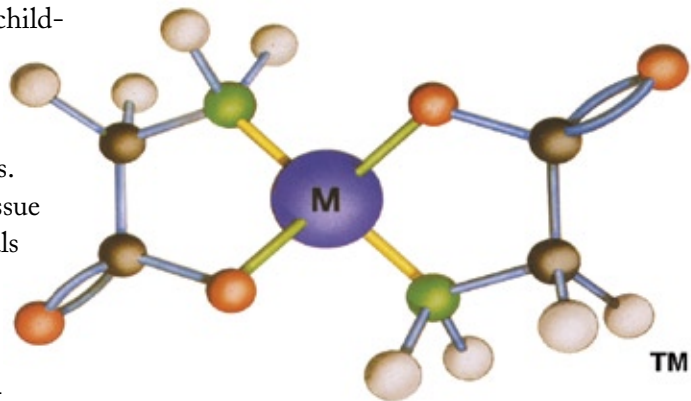
*Zinc Glycinate™ is manufactured and a Federal Drug Registered and State Board Pharmacy cGMP laboratory*

## Discussion

Generally, zinc is relatively poorly absorbed (10-40%). It is ionized in the gut and then absorbed by both active and passive diffusion. The degree of absorption of ionized zinc is influenced by various factors. Unlike supplements that are ionized, XYMOGEN®'s formula containing Albion Laboratories®' zinc bisglycinate does not have competition for absorption from selenium, calcium and the other minerals because it does not depend upon these metal cations for transport across the brush membranes. Furthermore, phytates present in dietary whole grains and fiber have less interference with absorption of this form of zinc than other forms.

Zinc is a co-factor in more than 120 enzymes involved in protein, carbohydrate and DNA/RNA metabolism. Adequate zinc is especially important during periods of growth and development, such as pregnancy and childhood. It is critical to the production of growth and sex steroid hormones, as well as a structural component of many kinds of proteins, hormone receptors, neuropeptides, and polynucleotides. Zinc is critical to thyroid, adrenal, and ovarian tissue function. Double-blind, placebo-controlled trials using various forms of zinc have shown that it is safe and efficacious in reducing the severity and duration of the common cold, as well as a variety of other more serious infections. The bone-building effect of estrogen is enhanced by zinc. This mineral might play an important role in the development of alterations in keratinocytes with aging.

Zinc is needed for the conversion of pre-formed vitamin A into its the active form.



Zinc bis-glycinate  
Courtesy of Albion Laboratories, Inc.®



During periods of dietary zinc deficiency the body mobilizes the mineral from a very small pool in the liver that has a half-life of only two weeks. Thus, clinically relevant zinc depletion can occur within a week. The introduction of copper tubing in plumbing applications has caused increased copper in water supply. Since excess copper can depress zinc levels, this has been a major contributor to zinc deficiency, especially in areas of hard water. The prevalence of copper in water as well as its inclusion in most multi vitamin formulas profoundly reduces the risk of over supplementation of zinc. However consuming mg/day of zinc for over six months in the absence of any copper may cause hypocupremia [low copper], anemia, leukopenia, and neutropenia

<b>Supplement Facts</b>		
Serving Size 1 Capsule		
Servings Per Container 60		
Amount per serving %Daily Value		
Zinc (as bis-glycinate chelate)	20 mg	150%

**Other Ingredients:** HPMC (capsule), Magnesium Stearate.

### Dosing

Take one capsule twice daily or as directed by your healthcare practitioner.

### References

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Additional references available upon request.

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

