

# EXTREME V GLUZIN™

## When You Need Zinc – Choose Gluzin™



### PURITY YOU CAN TRUST

You understand the importance of zinc is vital for your health, and non-compliance is an ongoing problem for many of us.

Generally, three factors cause non-compliance:

- Product cost versus quality
- Hard-to-swallow tablets
- Allergenic ingredients

GLUZIN™ is made from Pharmaceutical Grade USP standard raw materials and is manufactured in facilities that meet or exceed all current Good Manufacturing Practice (GMP) requirements. Gluzin™ has been formulated with minimum fillers to help reduce allergic reactions.

GLUZIN™ is an essential trace mineral zinc supplement you can recommend with confidence, and trust in its purity. It's available at a price your patient can afford.

### AT EXTREME V,™ WE'VE RECOGNIZED AND ANSWERED YOUR NEEDS:

- No fear of allergens or wasteful fillers.
- Two dosage forms: 50 mg, (capsule size 1) and 25 mg (capsule size 3) for patients with special needs.
- Our unique production process allows us to charge less money than some other manufacturers.
- Rigorous production batch validations, stability and dissolution testing, and product analysis regimens are based on pharmaceutical-level Standard Operating Procedures (SOPs) and conducted in third-party Good Laboratory Practice (GLP) facilities to assure the highest, purest quality.
- Available over the counter as a dietary supplement. Gluzin™ delivers high value at an affordable cost.
- Available worldwide.



EXTREME V DIETARY SUPPLEMENTS AND NUTRACEUTICALS  
Gives you an affordable way to better health.

Email us today for detailed information about extreme V Gluzin™  
[info@extremeV.com](mailto:info@extremeV.com) | [www.extremeV.com](http://www.extremeV.com)

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.

extreme™



# GLUZIN™ ZINC GLUCONATE

Gluzin™ supports the replenishment of normal healthy zinc levels and balances the interactions of your essential trace elements. Gluzin™ is formulated with Pharmaceutical Grade Zinc Gluconate. Zinc is a naturally occurring mineral and is essential for immune system health.

## Uses

Zinc is important for the growth and development of healthy body functions. Zinc Gluconate supports the replenishment of normal healthy zinc levels.

## Description

Gluzin™ comes in two dosage forms:  
25 mg (Capsule size 3) and 50 mg (Capsule size 1)

## INCI Designation

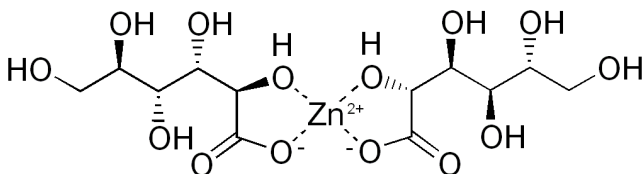
Zinc Gluconate

## CAS No.

4468-02-4

## Physical and Chemical Properties

Empirical Formula:  $C_{12}H_{22}O_{14}Zn$   
Molecular Weight: 455.685 g/mol  
Chemical Structure:



ZINC GLUCONATE CHEMICAL STRUCTURE

## Specifications

Appearance:	White granules
Odor:	Odorless
Heavy Metals (as Pb):	Not more than 0.001%
Arsenic (AS <sub>2</sub> O <sub>3</sub> ):	Not more than 0.0003%
Assay (dry basis):	97.0% - 102%

## Solubility

Soluble in water.

## Stability

Stable in temperature and humidity.

## Recommended Daily Dose

As a dietary supplement, take one capsule daily.

## Physiological Function

- Supports the replenishment of normal healthy zinc levels.
- Zinc blocks the intestinal absorption of copper from the diet.
- Zinc is involved in numerous aspects of cellular metabolism. It is required for the catalytic activity of approximately 100 enzymes and it plays a role in immune function, protein synthesis, wound healing, DNA synthesis, and cell division.

## Absorption and Tissue Deposition

Most exogenous zinc is absorbed transcellularly in the small intestine, where the jejunum exhibits the greatest transport rate. Absorption kinetics are saturable, and efficiency of intestinal zinc absorption increases with transit time and zinc deficiency. Over 85 percent of total body zinc is incorporated into skeletal muscle and bone. Plasma zinc, bound primarily to albumin at a concentration of approximately 10-15  $\mu\text{mol/L}$ , represents only 0.1% of total body levels.

## Formulating Techniques

Good dissolution profile, contains minimal excipients, contains no excipients that will cause allergic reactions.

## Side Effects

Zinc is considered to be relatively nontoxic, particularly if taken orally. However, manifestations of overt toxicity symptoms (nausea, vomiting, epigastric pain, lethargy, and fatigue) will occur with extremely high zinc intakes. Even lower levels of zinc supplementation, closer in amount to the Recommended Dietary Allowance (RDA) (100-300 mg Zn/d vs. an RDA of 15 mg Zn/d), have been suggested to interfere with the utilization of copper and iron and to adversely affect HDL cholesterol concentrations. Individuals using zinc supplements should be aware of the possible complications attendant to their use. Do not exceed recommended dose.

## Other Ingredients

Gelatin (capsules), Magnesium Stearate.

## Allergenic Ingredients

No sugar, no starch, no artificial flavors, no preservatives, sodium free, no wheat, no gluten, no corn, no soy, no dairy, yeast free, no lactose.

## Storage

Keep out of reach of children. Store in a cool, dry place.

## Packaging

High Density Polyethylene (HDPE) with tamper resistance cap-ring.

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