

Magnesium for Heart, Rhythm, & Bones



Dr. AMFM
THE EXCLUSIVE FORMULA

Clinical Applications

- Supports Cardiovascular Health*
- Supports Healthy Muscle Function/Healthy Nerve Conduction*
- Supports Bone Health*
- Supports Energy Production*
- May Support Healthy Glucose Metabolism*

*Magnesium, the fourth most abundant mineral in the human body, plays a role in over 300 metabolic processes. It participates in the development and maintenance of bones and teeth; the metabolism of carbohydrates, blood glucose, fats, and proteins; the formation of cells and tissues; and the maintenance of muscle function, including cardiac muscle. Magnesium for Heart, Rhythm, & Bones contains Albion®'s TRAACS® magnesium lysinate glycinate (mineral amino acid chelate) and Albion's chelated dimagnesium malate—both formulated for enhanced absorption. Malic acid (from di-magnesium malate) supports energy production and lactic acid clearance via the Krebs cycle. Malic acid may also support antioxidant systems by enhancing glutathione and antioxidant enzymes.**

All Optimal Heart Center & Body Lab Formulas Meet or Exceed cGMP Quality Standards

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Discussion

Magnesium Lysinate Glycinate Chelate, a mineral amino acid chelate in which magnesium is bound to two amino acids, creates a complex that is more readily absorbed across the intestinal wall. Since the body can efficiently absorb dipeptides (two amino acids linked together), Albion's TRAACS® magnesium lysinate glycinate is an excellent delivery system for magnesium. In general, Albion TRAACS patented mineral amino acid chelates are resistant to competitive minerals, do not weaken the action of vitamins, and pose a smaller risk of overdosing.*^[1]

Di-Magnesium Malate, the other chelate in Magnesium for Heart, Rhythm, & Bones, contains 69% malate (malic acid). Each capsule of Magnesium for Heart, Rhythm, & Bones supplies approximately 400 mg of malic acid. Malic acid was chosen because it forms complexes with magnesium.^[2] Magnesium and malate play critical roles in energy production under aerobic conditions or when oxygen is lacking.^[3] Malic acid also appears to exert a protective effect by binding aluminum.*^[4]

Magnesium, the fourth most abundant mineral in the body, participates in about 300-350 enzymatic reactions in nearly all tissues. Deficiency is common and results from poor dietary intake, poor absorption, and excessive losses through urine, stool, perspiration, or lactation. Certain drugs, certain herbs, poor kidney function, excessive alcohol intake, and drinking mostly "soft" water can contribute to magnesium depletion as well.*^[5]

Magnesium's role in the clinical applications cited above is quite well established. Beyond these commonly recognized applications, researchers have demonstrated that magnesium can support cytokine balance and decrease sensitivity to oxidative stress.^[6] An analysis of the results of a National Health and Nutrition Examination Survey (NHANES) suggested that children who consumed less than 75% of the recommended dietary allowance (RDA) for magnesium were 58% more likely to have elevated C-reactive protein (CRP) levels.^[7] Magnesium's role in modulating CRP and supporting the body's normal response to inflammation may be significant. In addition, although underlying mechanisms remain unclear, it appears that men who consume diets rich in magnesium are able to maintain healthy gallbladder function.^[8] Adequate magnesium intake indeed has strong, far-reaching health benefits.*^[9]

*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.

Magnesium for Heart, Rhythm, & Bones



Supplement Facts

Serving Size: 2 Capsules
Servings Per Container: 60

	Amount Per Serving	%Daily Value
Magnesium (as Albion® di-magnesium malate and TRAACS® magnesium lysinate glycinate chelate)	250 mg	60%
Malic Acid (as Albion® di-magnesium malate)	828 mg	**

** Daily Value not established.

Other Ingredients: HPMC (capsule), stearic acid, medium-chain triglyceride oil, magnesium stearate, and silica.



Albion, TRAACS and the Albion Medallion design are registered trademarks of Albion Laboratories, Inc. Malate covered by U.S. Patent 6,706,904 and patents pending.

Directions

Take one to two capsules twice daily at or between meals, or as directed by your healthcare practitioner.

Consult your healthcare practitioner prior to use. Individuals taking medication should discuss potential interactions with their healthcare practitioner. Do not use if tamper seal is damaged.

References

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3. Krinsky DL, LaValle JB, Hawkins EB, et al. *Natural Therapeutics Pocket Guide*. 2nd ed. Hudson, OH: Lexi-Comp; 2003.
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5. Magnesium Balance: Can You Juggle? Albion Human Nutrition Research Notes. 2006 Dec;15(4). http://www.albionhumannutrition.com/research-notes/download/doc_details/328-magnesium-balance-can-you-juggle. Accessed May 29, 2012.
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7. King DE, Mainous AG 3rd, Geesey ME, et al. Magnesium intake and serum C-reactive protein levels in children. *Magnes Res.* 2007 Mar;20(1):32-6. [PMID: 17536486]
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9. Laires MJ, Monteiro CP, Bicho M. Role of cellular magnesium in health and human disease. *Front Biosci.* 2004 Jan 1;9:262-76. [PMID: 14766364]

Does Not Contain

Wheat, gluten, corn, yeast, soy, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, or artificial preservatives.

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