

Calcium & Magnesium Plus

With Boron & Vitamin D



Recommended by
Angie Svoboda, Pharm D.

DESCRIPTION

Calcium & Magnesium Plus formula is designed to provide the structural components, as well as help support some of the complex biochemical and physiological processes involved in building and maintaining strong, healthy bone structure. Each tablet provides 500 mg of calcium and 250 mg of magnesium.

FUNCTIONS

The adult human body contains approximately 1,200 g of calcium, about 99% of which is present in the skeleton, and 20-30 g of magnesium with about 60% located in bone. The process of building and maintaining bone structure involves numerous biochemical and physiological processes.

Osteoblasts and osteoclasts are the two primary types of bone cells involved in maintaining skeletal structure. Osteoblasts are responsible for bone mineralization (building new bone). Osteoclasts are responsible for secreting acid and enzymes that help dissolve "old" bone tissue into calcium and other components, some of which may be reused by the body. This process is known as "resorption." In children and adolescents, the rate of formation of bone mineral predominates over the rate of resorption. In later life, resorption predominates over formation. Therefore, in normal aging, there is a gradual loss of bone.

It is generally accepted that obtaining enough dietary calcium throughout life can significantly decrease the risk of developing osteoporosis. Among other factors, such as regular exercise, gender and race, calcium supplementation during childhood and adolescence appears to be a prerequisite for maintaining adequate bone density later in life. But even elderly osteoporotic patients can benefit significantly from supplementation with dietary calcium. Other nutrients like boron, an essential trace mineral, are required for various hormonal processes that impact bone health, and help support the functions of calcium, magnesium and vitamin D.

INDICATIONS

Calcium & Magnesium Plus may be a useful dietary supplement for those looking to augment their calcium and magnesium intake without having to take numerous pills.

SUGGESTED USE

Adults take 1 tablet, 2 times daily with food or as directed by a healthcare professional.

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.

FORMULA (WV #10024)

One Tablet Contains:

Vitamin D (cholecalciferol)	25 IU
Calcium	500 mg
(as carbonate, citrate, amino acid chelate)	
Magnesium	250 mg
(as oxide, citrate, amino acid chelate)	
Boron	1 mg
(as citrate, aspartate, glycinate)	
Betaine hydrochloride	25 mg
Other Ingredients: Cellulose, cellulose gum, stearic acid, calcium tri-citrate, and pharmaceutical glaze.	

This product contains NO sugar, salt, dairy, yeast, wheat, gluten, corn, preservatives, artificial colors, or flavors.

SIDE EFFECTS

No adverse effects have been reported.

STORAGE

Store in a cool, dry place away from direct light. Keep out of reach of children.

REFERENCES

- Bendich A, Leader S, Muhuri P. Supplemental calcium for the prevention of hip fracture: potential health-economic benefits. *Clin Ther* 1999;21:1058-72.
- Castelo-Branco C. Management of osteoporosis. An overview. *Drugs Aging* 1998;12:25-32.
- Chapin RE, Ku WW, Kenney MA, et al. The effects of dietary boron on bone strength in rats. *Fundam Appl Toxicol* 1997;35:205-15.
- Dimai HP, Porta S, Wirnsberger G, et al. Daily oral magnesium supplementation suppresses bone turnover in young adult males. *J Clin Endocrinol Metab* 1998;83:2742-8.
- Laketic-Ljubojevic I, Suva LJ, Maathuis FJ, et al. Functional characterization of N-methyl-D-aspartic acid-gated channels in bone cells. *Bone* 1999;25:631-7.
- Morton DJ, Barrett-Connor EL, Schneider DL. Vitamin C supplement use and bone mineral density in postmenopausal women. [In Process Citation]. *J Bone Miner Res* 2001;16:135-40.
- New SA, Robins SP, Campbell MK, et al. Dietary influences on bone mass and bone metabolism: further evidence of a positive link between fruit and vegetable consumption and bone health? *Am J Clin Nutr* 2000;71:142-51.
- O'Brien KO. Combined calcium and vitamin D supplementation reduces bone loss and fracture incidence in older men and women. *Nutr Rev* 1998;56:148-50.
- Reid IR. The roles of calcium and vitamin D in the prevention of osteoporosis. *Endocrinol Metab Clin North Am* 1998;27:389-98.
- Rude RK, Kirchen ME, Gruber HE, et al. Magnesium deficiency induces bone loss in the rat. *Miner Electrolyte Metab* 1998;24:314-20.

Manufactured For:

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