



Product Information

Nano Vitamin D

DESCRIPTION

Nano Vitamin D, available from Medical Wellness Associates, is a caplique® containing 12,500 IU of vitamin D3 in a patented, naturally self-assembling nano-colloid system for enhanced absorption.

FUNCTIONS

Vitamin D, also known as the “sunshine vitamin” is an essential fat-soluble vitamin that plays many important roles in the proper functioning of the body. Though classified as a vitamin, vitamin D is actually a key regulatory hormone for calcium and bone metabolism. Adequate vitamin D status is essential for ensuring normal calcium absorption and maintenance of healthy calcium plasma levels. Besides bone support, vitamin D has many other roles in the body, including modulation of cell growth, neuromuscular and immune function and inflammatory support.

Supplemental vitamin D is available in 2 distinct forms: synthetic ergocalciferol (vitamin D2) and natural cholecalciferol (vitamin D3). Despite an emerging body of evidence suggesting greater bioefficacy of vitamin D3, the form of vitamin D used in pharmaceutical prescriptions in North America is vitamin D2. Clinical studies show vitamin D2 potency is less than one third that of vitamin D3 and has a shorter duration of activity. For example, 50,000 IU of vitamin D2 may be similar to a dose of 15,000 IU of vitamin D3. Therefore, vitamin D2 should not be considered equivalent to vitamin D3 based on differences in their efficacy at raising serum 25- hydroxyvitamin D, reduced binding of vitamin D2 metabolites to vitamin D binding protein in plasma, and distinct differences in metabolism. Since vitamin D is fat-soluble, it may be difficult for one to adequately absorb and utilize it, especially for those individuals with fat malabsorption. Nano Vitamin D is unique among vitamin D products because it utilizes the patented VESIsorb® technology to deliver vitamin D3 and therefore enhance absorption. When mixed with an aqueous system, this patented technology results in the formation of a nano-colloid containing solubilized vitamin D. This colloid delivery system contains a highly uniform distribution of droplets that are less than 100 nm in

diameter. The size and structure of these droplets allow for enhanced solubility and absorption of vitamin D. This image represents the structure of a nano-colloid droplet which consists of a monolayer with the vitamin D contained within the core. The formation of the colloidal system upon contact with an aqueous environment (such as the lumen of the intestine) enables the solubilized vitamin D to more easily diffuse across the unstirred water layer that is present between the enterocyte and the lumen of the intestine.

INDICATIONS

Nano Vitamin D may be a useful dietary supplement for those who wish to increase their daily vitamin intake with a high potency, absorbable form of vitamin D.

FORMULA (#201206)

Each caplique® capsule contains:

Vitamin D3 (cholecalciferol)12,500 IU
Other ingredients: Cellulose (capsule) medium chain triglycerides, polysorbate 80, sucrose fatty acid esters, fatty acids, vitamin E (as dl-alpha-Tocopherol)

SUGGESTED USE

One caplique® capsule daily or as directed by your healthcare professional.

SIDE EFFECTS

No adverse side effects have been reported. Note: People consuming more than 2,000 IU per day should have their vitamin D blood levels monitored by a healthcare professional.

STORAGE

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

REFERENCES

Institute of Medicine, Food and Nutrition Board. Dietary Reference Intakes for Calcium and Vitamin D. Washington, DC: National Academy Press, 2010. Cranney C, Horsely T, O'Donnell S, Weiler H, Ooi D, Atkinson S, et al. Effectiveness and safety of vitamin D. Evidence Report/Technology Assessment No. 158 prepared by the University of Ottawa Evidence-based Practice Center under Contract No. 290-02.0021. AHRQ Publication No. 07-E013. Rockville, MD: Agency for Healthcare Research and Quality, 2007. Heaney RP, Recker RR, Grote J, Horst RL, Armas LA. Vitamin D3 Is More Potent Than Vitamin D2 in Humans. J

(Continued on reverse)

Clin Endocrinol Metab. 2010 Dec 22 Houghton LA, Vieth R. The case against ergocalciferol (vitamin D2) as a vitamin supplement. Am J Clin Nutr. 2006 Oct;84(4):694-7. Holick MF. Vitamin D: the underappreciated D-lightful hormone that is important for skeletal and cellular health. Curr Opin Endocrinol Diabetes 2002;9:87-98. Davis CD, Dwyer JT. The 'sunshine vitamin': benefits beyond bone? J Natl Cancer Inst 2007;99:1563-5. Jones G. Pharmacokinetics of vitamin D toxicity. Am J Clin Nutr 2008;88:582S-6S. A vitamin D nutritional cornucopia: new insights concerning the serum 25-hydroxyvitamin D status of the US population. Am J Clin Nutr 2008;88:1455-6. Gillespie WJ, Henry DA, O'Connell DL, Robertson J. Vitamin D and vitamin D analogues for

preventing fractures associated with involutional and post-menopausal osteoporosis. Cochrane Database Syst Rev. 2000;(2):CD000227 Heaney RP, Recker RR, Grote J, Horst RL, Armas LA Vitamin D3 Is More Potent Than Vitamin D2 in Humans. J Clin Endocrinol Metab. 2010 Dec 22. Reid IR. The roles of calcium and vitamin D in the prevention of osteoporosis. Endocrinol Metab Clin North Am. 1998 Jun;27(2):389-98. Swaminathan R. Nutritional factors in osteoporosis. Int J Clin Pract. 1999 Oct-Nov;53(7):540-8. 22.

**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.**

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