

Chromium Picolinate 250 mcg. Supports Healthy Blood Sugar Levels

DESCRIPTION

Chromium Picolinate 250 mcg. is a trace element supplement that contains chromium bound to picolinic acid, a highly biologically active form of this mineral.

FUNCTIONS

Chromium is an essential trace mineral that potentiates insulin action and thus influences carbohydrate, protein, and fat metabolism. The biologically active form of chromium, sometimes called glucose tolerance factor (GTF), occurs naturally in brewers yeast. GTF has been proposed to be a complex of chromium, nicotinic acid (vitamin B-3), and possibly the amino acids glycine, cysteine, and glutamic acid. Although many attempts have been made to isolate or synthesize natural GTF, none have been entirely successful. Adequate chromium nutrition is essential for the formation of GTF and subsequent control of blood glucose levels. Studies have shown that supplemental chromium may be useful for the maintenance of healthy blood sugar. Chromium appears to act by increasing insulin binding, insulin receptor numbers, and rate of insulin receptor phosphorylation. Chromium absorption is typically less than 2% efficient and variable depending on its chemical form. Studies have demonstrated that chromium picolinate has a bioavailability comparable to that of chromium polynicotinate, and higher than that of chromium chloride. Tissues retain anywhere from 2 to 8 times more chromium from chromium picolinate compared to chromium chloride. The typical dietary chromium intake in the U.S. can vary considerably depending on eating habits. Meats and unrefined whole grain cereal products, especially bran, are good sources of chromium. However, most self-selected diets contain less than 50 mcg per day, which is below the minimum of the Estimated Safe and Adequate Daily Dietary Intake established by the National Research Council, Food and Nutrition Board. Chromium requirements may be increased with high intake of refined carbohydrates and simple sugars, strenuous physical exercise or work, infection, or physical trauma.

INDICATIONS

Chromium Picolinate 250 mcg. may be useful as a daily supplement for individuals who wish to supplement their intake of chromium or who have a demonstrated need for supplemental chromium in its active form due to dietary deficiency or impaired metabolism.

FORMULA (#7417)

Each Capsule Contains:

Chromium (Picolinate) 250 mcg

SUGGESTED USE

Adults take 1 capsule daily or as directed by physician.

SIDE EFFECTS

No adverse side effects have been reported.

STORAGE

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

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REFERENCES

- Anderson RA. Chromium, glucose intolerance and diabetes. *J Am Coll Nutr* 1998;17:548-55.
- Anderson RA, Bryden NA, Polansky MM. Lack of toxicity of chromium chloride and chromium picolinate in rats. *J Am Coll Nutr* 1997;16:273-9.
- Anderson RA, Cheng N, Bryden NA, et al. Elevated intakes of supplemental chromium improve glucose and insulin variables in individuals with type 2 diabetes. *Diabetes* 1997;46:1786-91.
- Bahadori B, Wallner S, Schneider H, et al. [Effect of chromium yeast and chromium picolinate on body composition of obese, non-diabetic patients during and after a formula diet]. *Acta Med Austriaca* 1997;24:185-7.
- Fox GN, Sabovic Z. Chromium picolinate supplementation for diabetes mellitus. *J Fam Pract* 1998;46:83-6.
- Hoeger WW, Harris C, Long EM, et al. Four-week supplementation with a natural dietary compound produces favorable changes in body composition. *Adv Ther* 1998;15:305-14.
- Lee NA, Reasner CA. Beneficial effect of chromium supplementation on serum triglyceride levels in NIDDM. *Diabetes Care* 1994;17:1449-52.
- Lien TF, Horng YM, Yang KH. Performance, serum characteristics, carcass traits and lipid metabolism of broilers as affected by supplement of chromium picolinate. *Br Poult Sci* 1999;40:357-63.
- McCarty MF. High-dose biotin, an inducer of glucokinase expression, may synergize with chromium picolinate to enable a definitive nutritional therapy for type II diabetes. *Med Hypotheses* 1999;52:401-6.
- Preuss HG, Grojec PL, Lieberman S, et al. Effects of different chromium compounds on blood pressure and lipid peroxidation in spontaneously hypertensive rats. *Clin Nephrol* 1997;47:325-30.
- Vincent JB. The biochemistry of chromium. *J Nutr* 2000;130:715-8.

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† 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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