

Manganese Chelate

DESCRIPTION

Manganese Chelate tablets, provided by Douglas Laboratories®, supply manganese from bioavailable manganese amino acid chelate. Each tablet contains 16.7 mg elemental manganese.

FUNCTIONS

Manganese is an essential trace element for growth, reproduction, bone, cartilage, and glucose tolerance. Manganese activates several metalloenzymes, including hydrolases, kinases, decarboxylases and transferases.

Manganese is also the essential cofactor of the mitochondrial form of the antioxidant enzyme superoxide dismutase (SOD). SOD is a key antioxidant enzyme that destroys harmful superoxide anions that are generated during normal energy metabolism or come from environmental pollution. Mitochondrial SOD activity is dependent on sufficient dietary intake of manganese.

INDICATIONS

Manganese Chelate tablets may be a useful dietary adjunct for individuals wishing to supplement with this essential mineral.

FORMULA (#7101)

1 Tablet Contains:

Manganese(amino acid chelate) 16.7 mg

SUGGESTED USE

One tablet daily as a dietary supplement, or as directed by a healthcare professional.

SIDE EFFECTS

No adverse side effects reported.

STORAGE

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

REFERENCES

- El-Yazigi A, Hannan N, Raines DA. Urinary excretion of chromium, copper, and manganese in diabetes mellitus and associated disorders. *Diabetes Res* 1991;18:129-134.
- Finley JW, Johnson PE, Johnson LK. Sex affects manganese absorption and retention by humans from a diet adequate in manganese. *Am J Clin Nutr* 1994;60:949-955.
- Gibson RS, MacDonald AC, Martinez OB. Dietary chromium and manganese intakes of a selected sample of Canadian elderly women. *Hum Nutr Appl Nutr* 1985;39:43-52.
- Malecki EA, Huttner DL, Greger JL. Manganese status, gut endogenous losses of manganese, and antioxidant enzyme activity in rats fed varying levels of manganese and fat. *Biol Trace Elem Res* 1994;42:17-30.
- Nielsen FH. Ultratrace Minerals. In: Shils ME, Olson JA, Shike M, eds. *Modern Nutrition in Health and Disease*. 8th ed. Philadelphia: Lea & Febiger, 1994:269-286.
- Robberecht HJ, Hendrix P, Van Cauwenbergh R, Deelstra HA. Daily dietary manganese intake in Belgium, using duplicate portion sampling. *Z Lebensm Unters Forsch* 1994;199:446-448.
- Rossander-Hulten L, Brune M, Sandstrom B, Lonnerdal B, Hallberg L. Competitive inhibition of iron absorption by manganese and zinc in humans. *Am J Clin Nutr* 1991;54:152-156.

For more information on Manganese Chelate visit douglaslabs.com

Manganese Chelate

† 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.

Manufactured by
Douglas Laboratories
600 Boyce Road
Pittsburgh, PA 15205
800-245-4440
douglaslabs.com



**You trust Douglas Laboratories.
Your patients trust you.**

© 2013 Douglas Laboratories. All Rights Reserved