Ultra Benfotiamine

Antioxidant Support‡

DESCRIPTION

Ultra Benfotiamine contains the fat-soluble thiamine vitamin called benfotiamine, plus activated vitamin B6, alpha lipoic acid, grape seed extract and pine bark extract to support healthy peripheral circulation and the nervous system, normal kidney function, and AGE (advanced glycation end-product) production that is related to healthy glucose metabolism. ‡

INDICATIONS

- Support for glucose metabolism, kidney function, and vascular health. ‡

FUNCTIONS AND MECHANISM OF ACTION

BenfoPure® is a unique proprietary form of Benfotiamine, a fat-soluble form of Vitamin B-1 Thiamine. Studies show that BenfoPure® Benfotiamine is significantly more bioavailable than traditional forms of Vitamin B-1 or thiamine. Its mechanism of action is through blocking biochemical pathways by which high blood sugar damages cells.

Advanced glycation end products (AGEs) are proteins or lipids that become glycated after exposure to sugars. The presence and accumulation of AGEs in many different cell types affect extracellular and intracellular structure and function. In high blood sugar environments and in natural aging, AGEs alter cell structure and normal vascular function. Benfotiamine supports normal endothelial function by reducing the risk of AGEs, which is associated with optimal cardiovascular health. ‡

Vitamin B6 has been shown to help provide comfort for peripheral nerves, especially in those individuals with pyridoxine deficiency. Pyridoxal-5-Phosphate (P5P) is the active form of pyridoxine that the body utilizes directly without need for conversion from pyridoxine. Alpha lipoic acid (ALA) is among the well-researched nutrients for support of peripheral nerve function. ALA may normalize nitric oxide levels to support increased circulation to the neurons. In animal research, ALA supplementation resulted in increased blood flow and nerve conduction.

Proanthocyanidins are a class of potent antioxidants found in pine bark extract, grape seed extract, and many other plants. OPC (oligomeric proanthocyanidins) neutralize free radicals, support the strength and structure of blood vessels. MegaNatural® BP Grape seed extract is different from other grape seed extracts and made by a patented water extraction process that yields a pure extract with a low molecular weight. Mega Natural BP extract contains over 90% proanthocyanidins. Studies in humans have shown it supports healthy arterial and endothelium cell function. ‡

FORMULA (#201815-60X)

Serving size: 1 vegetarian capsule

Pyridoxal-5-Phosphate ..... 25 mg
(activated B6)
Benfotiamine ..... 150 mg
(as BenfoPure®)
Alpha Lipoic Acid ..... 100 mg
MegaNatural®-BP
Grape Seed Extract ..... 25 mg
(*Vitis vinifera*) (standardized to 90% polyphenols)
Enzogenol® Pine Bark Extract .. 10 mg
Other Ingredients: Hydroxypropyl methylcellulose (capsule), cellulose, dicalcium phosphate, vegetable stearate, silica.

Ultra Benfotiamine

Antioxidant Support‡

SUGGESTED USE

Adults take one capsule twice daily or as directed by a healthcare professional.

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

Nikolić A, et al. *Srp Arh Celok Lek*. 2009 Nov-Dec;137(11-12):594-600.
Syngle A, Vohra K, Garg N, Kaur L, Chand P. *Int J Rheum Dis.* 2012 Feb;15(1):45-55.
Haupt E, Ledermann H, Köpcke W. *Int J Clin Pharmacol Ther*. 2005 Feb;43(2):71-7.
Schmid U, Stopper H, Heidland A, Schupp N. *Diabetes Metab Res Rev*. 2008 Jul-Aug;24(5):371-7.
Stirban A, et al. *Diabetes Care*. 2006 Sep;29(9):2064-71.
Schupp N, et al. *Arch Pharmacol*. 2008 Sep;378(3):283-91
Du X, Edelstein D, Brownlee M. *Diabetologia*. 2008 Oct;51(10):1930-2.
Nagamatsu M, Nickander KK, Schmelzer JD, et al. *Diabetes Care* 1995;18:1160-1167.
Abbas ZG, Swai AB. *East Afr Med J* 1997;74:803-808.
Yokozawa T, Cho EJ, Park CH, Kim JH. *Evid Based Complement Alternat Med.* 2012;2012:623879.
Edirisinghe I, Burton-Freeman B, Tissa Kappagoda *C. Clin Sci* (Lond). 2008 Feb;114(4):331-7.
Shand B, et al. *Phytother Res*. 2003 May;17(5):490-4.
Walker MJ Jr, Morris LM, Cheng D. *Rev Neurol Dis*. 2010;7(4):132-9.
Ying Z, Xie X, Chen M, Yi K, Rajagopalan S. *Vascul Pharmacol.* 2014 Nov 22.
Ferreira PM, Militão GC, Freitas RM. Neurosci Lett. 2009 Oct 23;464(2):131-4.
Jain SK, Lim G. *Free Radic Biol Med*. 2000 Dec;29(11):1122-8.
Petronilho F. et al. *Inflammation.* 2016 Feb;39(1):357-365.
Grases F, et al. *Nutr J.* 2015 Sep 9;14:94.
Woo YJ, et al. *Exp Mol Med.* 2011 Oct 31;43(10):561-70.
Devaraj S, et al. *Lipids.* 2002. Oct;37(10):931-4.

For more information on Ultra Benfotiamine, visit douglaslabs.com

‡ 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.