

Berberine Balance

NPN 80093369

DESCRIPTION

Berberine Balance supplies high-potency berberine combined with alpha lipoic acid and grape seed extract for blood sugar and cardiovascular support. Grape seed extract and lipoic acid are well-known antioxidants.

FUNCTIONS

Berberine is a naturally occurring alkaloid and a primary constituent of several plants including barberry, goldenseal, and phellodendron. Recent studies indicate that berberine is a helpful supplement for maintaining cardiometabolic health. Berberine has been shown to regulate glucose and lipid metabolism *in vitro* and *in vivo*.

In vivo and *in vitro* experiments have also shown cardiovascular benefits of berberine, including vasorelaxatory effects. While the vascular sites for this activity are not completely clear, it seems that berberine acts on both the endothelium and the underlying vascular smooth muscle to induce vasorelaxation via multiple cellular mechanisms. Berberine also has a long history of usage in Ayurvedic and Chinese medicine dating back approximately 3,000 years.

Polyphenols, part of a broad class of bioflavonoids, are commonly found in grape seeds. Proanthocyanidins are a class of polyphenols that are highly regarded for their strong antioxidant properties. Proanthocyanidins appear to be especially effective in neutralizing highly reactive hydroxyl and singlet oxygen radicals. Both of these reactive oxygen species are involved in physiological processes.

Alpha-lipoic acid is unique among biological antioxidants because it is soluble in both water and lipids. This allows it to neutralize free radicals just about everywhere in the body, inside and outside the cells. Alpha-lipoic acid can also recharge other antioxidant systems throughout the body, extending the activity of vitamins C and E, and regenerating glutathione. Because alpha-lipoic acid is involved in so many different antioxidant functions in virtually all body tissues, it has been called the "universal antioxidant."

INDICATIONS

- Healthy glucose metabolism
- Cholesterol maintenance
- Cardiovascular support

FORMULA (#201131-60HYC-C)

Each Capsule Contains:

Berberine (berberine hydrochloride from <i>Berberis aristata</i> root)	450 mg
DL-Alpha-Lipoic Acid	50 mg
Grape Seed Extract (<i>Vitis vinifera</i>) (95% oligomeric proanthocyanidins).....	50 mg

Non-medicinal ingredients: Hypromellose (capsule), hypromellose, magnesium stearate, silica.

SUGGESTED USAGE

Adults: Take 1 capsule 2 times daily or as directed by your healthcare practitioner. Consult your healthcare practitioner for use beyond 3 months.

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RISK INFORMATION

Do not use if you are pregnant or breastfeeding. Consult your healthcare practitioner prior to use if you have diabetes, liver disease, hypoglycemia, hypotension or leucopenia. Stop use and consult your healthcare practitioner if you experience sweating, paleness, chills, headache, dizziness or confusion, or if gastrointestinal discomfort such as constipation, vomiting, abdominal pain or diarrhea occur.

STORAGE

Keep out of the reach of children. Store in a cool, dry place.

REFERENCES

Yifei Zhang, et al. J. Clin. Endocrinol. Metab. published online Apr 8, 2008;doi: 10.1210/jc.2007-2404. [Berberine].
Jun Yina, Huili Xing, and Jianping Yeb. Metabolism. 2008 May ; 57(5): 712–717. [Berberine].
Guo Yi. Chinese Medical Journal 2008; 121(13):1197-1203. [Berberine].
Kong W, et al. Nat Med. 2004 Dec;10(12):1344-51. [Berberine]. Zeng XH, Zeng XJ, Li YY. Am J Cardiol 2003;92:173-6. [Berberine].
Wojtyczka RD, et al. Molecules. 2014 May 22;19(5):6583-96. doi: 10.3390/molecules19056583. [Berberine].
Fan H, Chen YY, Bei WJ, Wang LY, Chen BT, Guo J. Evid Based Complement Alternat Med. 2013;2013:459390. doi: 10.1155/2013/459390. [Berberine].
Chan E. Biol Neonate 1993;63:201-8. [Berberine].
Lee WJ, et al. Biochem Biophys Res Commun. 2005 Jul 8;332(3):885-91. [Alpha-lipoic acid].
Ibrahimasic K. Med Arch. 2013;67(1):7-9. [Alpha-lipoic acid].
Kamenova P. Hormones (Athens). 2006 Oct-Dec;5(4):251-8. [Alpha-lipoic acid].
Bagchi D, Bagchi M, Stohs SJ, et al. Ann N Y Acad Sci 2002;957:260-70. [Proanthocyanidins].
Pataki T, et al. Am J Clin Nutr. 2002 May;75(5):894-9. [Proanthocyanidins].

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