

VesselMax



CLINICAL APPLICATIONS

- Promotes Healthy Microcirculation
- Helps Support Blood Vessel and Cardiovascular Health
- Maintains Optimal Vasomotor and Vascular Tone

CARDIOVASCULAR HEALTH

VesselMax is a powerful blend of botanical extracts shown to promote healthy microcirculation and support vascular strength and tone. The four ingredients in VesselMax work synergistically to support all layers of the blood vessel, as well as blood vessel valve structures. VesselMax includes troxerutin, diosmin, horse chestnut extract, and gotu kola, which have been extensively researched for their benefits to blood vessel health, improvements in microcirculation, and ability to strengthen vascular tone.

Overview

The muscles of blood vessels need to receive constant stimulation to maintain a resting level of contraction. This phenomenon is known as vasomotor tone. Vasomotor tone is, in turn, the result of a complex set of interactions that control both the relaxation and contraction of blood vessels.¹ This tone maintains the diameter of blood vessels and plays a vital role in maintaining healthy blood pressure levels within the normal range. Vasomotor tone is also controlled by the sympathetic nervous system, which releases norepinephrine to stimulate the appropriate response to various hormones and physiologic situations.

Vasoconstriction, whether due to an increase in venous wall stress or biomechanical stretch, is sufficient to cause an increase in vasomotor tone. Narrowing blood vessels leads to a reduction in blood supply and consequently a reduction in oxygen supply to various organs, making this a critical factor for maintaining optimal energy and health. Furthermore, such changes in vasomotor tone impact cardiac output and may lead to oxygenation and microcirculatory challenges.

Recent research proves flavonoids are natural substances that have special circulatory system benefits and support optimal

circulatory function. They also play a key role in microcirculation and optimal blood flow. Particularly, troxerutin, diosmin and horse chestnut extract appear to protect blood vessels from oxidative stress and are specifically well-suited to support those with circulatory and venous tone challenges.²

Diosmin

Diosmin is derived from the bioflavonoid hesperidin found in citrus rinds. The diosmin used in VesselMax is refined through micronization, which results in minute particles that are significantly smaller in size than standard diosmin. This allows for rapid, efficient delivery to the bloodstream and the inner lining of veins. Micronized purified flavonoid fraction (MPFF) supports vascular health by prolonging the impact norepinephrine has on the vessel wall, which promotes venous tone. In addition to promoting venous tone, research shows diosmin promotes circulatory health by helping to improve lymphatic drainage and protecting microcirculation.³ It has also been shown to maintain normal inflammatory balance and decrease capillary permeability.³

Troxerutin

Troxerutin is a naturally occurring flavonoid that is isolated from tea, coffee and vegetables. It has a variety of activities, including strong antioxidant capacity and the ability to maintain normal inflammatory balance.⁴ Specifically, troxerutin is able to promote healthy microcirculation and protect endothelial cells from oxidative stress. In a 2015 study, 134 patients received a mixture of diosmin, troxerutin and hesperidin for circulatory challenges, and this mixture was found to be a safe and effective for maintaining healthy venous sufficiency.⁵

† 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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Gotu Kola

Gotu kola (*Centella asiatica*) is a perennial plant found throughout India in moist places up to an altitude of 1800 m, and the whole plant is used for many health benefits.⁶ The primary active constituents of gotu kola are saponins, also called triterpenoids, which include asiaticosides.⁷ These triterpene saponins are mainly responsible for this plant's vascular benefits and ability to help with normal tissue repair.⁸ Gotu kola stimulates collagen synthesis and helps improve the tone and elasticity of vascular walls. It has also been shown to improve microcirculation and promote healthy capillary permeability. In addition, gotu kola supports functional parameters of healthy venous structure and hemodynamics.^{9,10}

Horse Chestnut Extract

Horse chestnut extract (*Aesculus hippocastanum*) is native to Southeastern Europe. Its seed extracts and their concentrates contain phytochemicals, including flavonoids, polyphenols, triterpenoid saponin glycosides (aescin), epicatechin, tannins, kaempferol, esculin, and fraxin, with aescin as the chief bioactive compound.¹¹

Aescin gives this herb its ability to promote healthy venous tone, normal lymph drainage and favorable blood flow dynamics.¹¹ It is also beneficial in improving microcirculation, which is the venous network responsible for the circulation of blood from the heart to the capillaries and back to the heart. Maintaining the structural integrity of capillaries is imperative for proper functioning of the venous system overall. Research indicates *Ruscus* extract and horse chestnut seed demonstrate the ability to maintain healthy venous sufficiency.¹²

Directions

3 capsules per day or as recommended by your health care professional.

Does Not Contain

Gluten, yeast, artificial colors or flavors.

Cautions

Do not consume this product if you are pregnant or nursing. Consult your physician for further information.

Supplement Facts^{v3}

Serving Size 3 Capsules
Servings Per Container 30

	Amount Per Serving	% Daily Value
Calories	5	
Total Carbohydrate	1 g	<1%*
Diosmin (from <i>Citrus sinensis</i> (Fruit)) (µsmin®Plus)	600 mg	**
Troxerutin	500 mg	**
Horse Chestnut Extract (Seed) (Standardized to contain 20% Aescin)	300 mg	**
Gotu Kola Extract (Aerial Portion) (Standardized to contain 10% Triterpene Derivatives)	200 mg	**

* Percent Daily Values are based on a 2,000 calorie diet.

** Daily Value not established.

Other Ingredients: Hypromellose (Natural Vegetable Capsules), Magnesium Stearate, Silicon Dioxide and Stearic Acid.

ID# 549090 90 Capsules

References

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