

FibroBoost® with Seanol®



INGREDIENTS

FibroBoost® contains Seanol®, a unique polyphenol complex from brown algae (*Ecklonia cava*). Seanol is produced using a patented extraction process that creates a complex of ten sea-based polyphenols. Widely studied for their health benefits, polyphenols are a diverse class of naturally occurring compounds found abundantly in the vegetable kingdom. Polyphenols from land growing plants are largely water soluble, breaking down rapidly in the body when consumed in food. In contrast, Seanol polyphenols are hydrophobic (repelled by water and therefore non-water-soluble); this allows them to remain in the body for up to twelve hours before being metabolized and excreted, greatly enhancing their beneficial health effects.

The polyphenols in Seanol are designated as “phlorotannins” based on their complex chemical structures. Polyphenols are built on a skeleton structure composed of two or more “phenolic rings.” The lauded antioxidant properties of polyphenols stem from the ability of these rings to absorb unpaired electrons from free radicals. Phlorotannins contain numerous phenolic rings, making them powerful free radical scavengers, as confirmed by ORAC analysis. (ORAC is a laboratory analytical technique that measures the *in-vitro* capacity of a substance to neutralize free radicals.) Patented methods are used to extract and purify polyphenol/phlorotannins from *Ecklonia cava*.

BENEFITS

- Supports Health and Well-being.*
- Benefits heart health, memory function, joint health, muscle function, immune function, and healthy metabolism.*

EXTENDED BENEFITS

Research

More than thirty million dollars has been invested in the research and development of Seanol. Safety and efficacy have been confirmed in an array of scientific tests that includes *in-vitro* and *in-vivo* studies, animal studies and human clinical trials.

Heart Health

Multiple tests and clinical trials reveal physiological effects of Seanol that optimize cardiovascular health. As an antioxidant, Seanol helps maintain healthy blood vessels by supporting the vascular epithelium that is confronted with circulating free radicals. Phlorotannins have been shown to boost the antioxidant capacity of serum (serum reducing capacity), as measured by their ability to convert iron in the blood from the ferric form, which is a strong oxidant, to the more benign ferrous iron. Phlorotannins also benefit healthy blood vessels by scavenging free radicals that occur in the body such as the DPPH radical and peroxynitrite.¹

An open-label human clinical trial showed that Seanol supports cardiovascular health by helping to maintain healthy circulation in arteries, as determined by a 43% increase in flow-mediated dilation (FMD), measured in the brachial artery. (FMD measures the dilation of a blood vessel in response to blood flow through the vessel, providing a gauge of its functional status.)² Additionally, Seanol may help maintain healthy endothelial function through the renin-angiotensin-aldosterone system.³

Memory

Seanol has beneficial effects on mental energy and acuity, as demonstrated in randomized, placebo-controlled studies (unpublished). Results include enhanced cerebral circulation, optimized ratios of alpha to beta brain waves and increases in parasympathetic activity. In another set of studies, students and professional drivers taking Seanol experienced less drowsiness when studying and driving.⁴ Seanol promotes healthy levels of acetylcholine, one of the body's major neurotransmitters that control memory and cognition.

Supplement Facts

Serving Size 3 veggie capsules
Servings per container 30 servings

	Amount per serving	% Daily Value
Seanol® (<i>Ecklonia cava</i> Extract)	1200 mg	†

† Daily Value not established.

Other Ingredients: Rice powder, modified cellulose (vegetarian capsule), magnesium stearate (vegetable source).

Suggested Adult Use: Take 3 capsules daily before meals, or as recommended by a nutritionally-informed physician. Do not exceed 6 capsules in a 24-hour period.

Non-GMO / Gluten Free / Soy Free / Vegan

Store in a cool dry place.

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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.

Joint Health

Seanol has a favorable influence on the body's physiological mechanisms that support joint function and comfort. *In vitro* studies reveal Seanol's influence on biochemical mediators of proteoglycan integrity, which in turn points to maintenance of the structural integrity of healthy joint cartilage.⁵

Metabolism

Seanol has a dampening effect on DGAT, an enzyme that plays a central role in the intestinal absorption of fats, body fat storage and triglyceride levels in the blood. Administered to mice, Seanol reduces deposition of fat in skeletal muscles. These results suggest Seanol may be a valuable addition to weight management programs.^{6,7}

SAFETY

Derived exclusively from edible algae, Seanol is manufactured using processes suitable for food products. Seanol has been safely consumed by tens of thousands of people with no adverse effects. Acute and chronic toxicity studies show a No Observed Adverse Effect Level (NOAEL) of 1 to 2 grams per kilogram of body weight, which represents an enormous dose for a human being. Likewise, an absence of adverse effects has been observed in pre-clinical and clinical studies.⁸

QUALITY CONTROL

Seanol meets stringent specifications for purity, upper limits on microbial contamination and levels of heavy metals (lead, mercury, cadmium, arsenic). Each lot is tested for conformance to specifications and accompanied by a Certificate of Analysis showing the test results and laboratory methods utilized.

SCIENTIFIC REFERENCES

1. Kang K, Park Y, Hwang HY, others. *Arch Pharm Res* 2003;26(4): 286-93.
2. Jang, Y Effect of Mo 'bar on hemopoiesis, endothial function, endocrinological profile and daily activities in adults. November 2001. Cardiology Division, College of Medicine, Yonsei University, Seoul, Korea.
3. Hong J-H, Son B-S, Kim B-K, et al. *Korean Journal of Phamacognosy* 2006;37(3):200-205.
4. Shin H-C. Summary of SEANOL-based beverage metrics. June 2006; LiveChem Inc., Seoul, Korea.
5. Shin H-C, Hwang KJ, Kang BH, Lee BH. *Arch Pharm Res* 2006;29(2):165-71.
6. Chi E. The beneficial effects of feeding SEANOL-based drink "X2" in a fat mouse model study. 2004; Department of Pathology, University of Washington, Seattle.
7. Shin H-C. SEANOL-obesity/DGAT Research Notes. LiveChem Inc., Seoul, Korea.
8. Shin H-C. Evaluation of Toxicity of Seanol™. June 2007; LiveChem Inc., Seoul, Korea.



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