



StemEnhance[®] ULTRA

StemEnhance[®] ULTRA (SEU) is made from nature’s most primitive superfoods. It concentrates and combines extracts from fresh water microalgae and marine macroalgae. **Cerule[®]** is specialized in the harvest of Aphanizomenon flos aquae (AFA) and transformation and extraction of both AFA and spirulina through processes that ensure quality from the raw material to finished product. **SEU** is the result of more than 10 years of research in the identification and extraction of active molecules, as well as the design of an exclusive drying technology called HydroDry[®] that preserves the nutritional benefits of algae, (US Patents 6,814,961 & 9,370,537 / EU Patent 1,895,973).

StemEnhance[®], a patented and clinically tested extract of AFA, is associated with **Fucoïdan** from **Undaria pinnatifida** and **Mesenkine[®]**, a Cerule exclusive and patented concentrate from Spirulina. These 3 ingredients work in synergy to support the release of your adult stem cells.

CHARACTERISTICS AND BENEFITS

AFA is a blue-green algae that belongs to cyanobacteria family. It grows naturally in Klamath lake in Southern Oregon (USA). Cradled in a volcanic region surrounded with national parks and forest, Klamath lake constitutes a unique ecosystem rich in sediments and minerals that promotes and sustains exceptional algal blooms. Thus, AFA provides various essential macronutrients (Pietri A. M., 2011), proteins (>50%) and in fibers. It also constitutes a good source of micronutrients:

- 20 amino acids, characterized by an ideal profile that matches the recommended daily intakes of the 10 essential amino acids
- 60 minerals and trace elements, rich in calcium (6mg/g) and in iron (0.32mg/g)
- 14 vitamins, particularly vitamins B1, B2, B12.

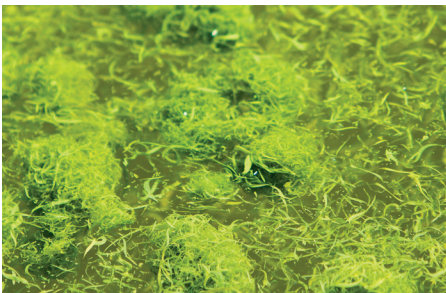
It provides several antioxidants such as carotenoids, lycopene, and chlorophyll. Moreover, AFA contains PhenylEthylAmine (PEA). This molecule is naturally secreted by the brain and is associated with a sense of wellbeing, it participates to the regulation of mood.

StemEnhance contains a L-selectin inhibitor and has clinically tested to support the mobilization of your adult stem cells. (Jensen et al., 2007). The extract has been extensively studied in several preclinical and clinical studies (Drapeau et al., 2010; Drapeau et al., 2012; Ismail et al. 2013; El Akabawy & El Mehi 2015).

AFA is well known for its nutritional richness in macro and micronutrients. It is composed of more than 60 % proteins and 14% carbohydrates. It is a good source of essential polyunsaturated fatty acids, amino acids, and micronutrients such as Iron, Calcium, Magnesium, Phosphorus and Selenium. It is used in nutritional supplementation all over the world. It contains antioxidants and supports the immune system (Finamore et al., 2017).

While developing **Cyactiv[®]** over several years, a yellow low-molecular weight compound called **Mesenkine** was discovered and isolated from spirulina. The process to extract **Mesenkin** has been patented by **Cerule**. The studies carried out on **Mesenkine** have shown that the extract helps mobilize your adult stem cells.

StemEnhance[®]
Aphanizomenon Flos-Aquae



Fucoïdan
Undaria pinnatifida



Mesenkine[®]
Arthrospira platensis



Undaria pinnatifida is used in Japanese cuisine under the name of Wakame, it is used in salads and miso soup. Undaria pinnatifida is a brown algae traditionally called sea fern. It is growing in several regions of the world but the Wakame selected in **SEU** comes from the world’s most pristine oceanic environments. Undaria pinnatifida helps to protect cells and tissues against damages from oxidative stress, thanks to its richness in polyphenols and fucoxanthin (Fung et al., 2013). This characteristic comes from an adaptive defense mechanism, as seaweeds are exposed to significant sunlight and oxygen.

Marine algae, or seaweeds, are well-known for their content in sulfated polysaccharides that compose their cell wall. The extract selected by **Cerule**, standardized to 80% of Fucoïdan, was documented to support the mobilization of your adult stem cells (Irhimeh et al., 2007).

INGREDIENTS AND LABEL

StemEnhance® ULTRA is the Ultimate in stem cell support containing a proprietary blend of highly concentrated extracts including Fucoidan and Cerule's own exclusive patented ingredients StemEnhance® and Mesenquine.*

Mesenquine, an extract from Spirulina, further enhances this synergistic blend by balancing key messengers involved in stem cell function.*

- Supports healthy cell renewal and maintenance*
- Supports the body's innate ability to self-heal*
- Supports the body's natural release of stem cells*

Caution: Use only as directed. Do not take this product if you are pregnant or nursing. Consult a healthcare professional before use if you have existing medical conditions. Not intended for children. Store in a cool dry place.

*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.

StemEnhance® ULTRA

ULTIMATE STEM CELL SUPPORT*

60 CAPSULES
DIETARY SUPPLEMENT

Suggested Use: Take 2 capsules 1-2 times daily.

Supplement Facts
Serving Size: 2 capsules
Servings per container: 30

Amount per serving	
StemEnhance® ULTRA Proprietary Blend	
StemEnhance® (Aphanizomenon flos-aquae concentrate)	475 mg†
Mesenquine® (Spirulina platensis extract)	475 mg†
Fucoidan 80% (Undaria pinnatifida extract)	75 mg†

† Daily value not established.

Other ingredients: Hypromellose (Vegetable Capsule), Organic Rice Concentrate.

Product does not contain: Dairy, wheat, gluten, peanuts, soy or corn allergens. No artificial flavors or colors.

100% vegetarian and non-GMO.

Cerule
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Product of the USA
Item Code: SEU101-USEN
Rev: OCT20V1

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SUGGESTED USAGE

Recommended daily dose for an adult: 2 capsules, 1 to 2 times per day, with a glass of water, with or without food. Do not refrigerate.

ADDITIONAL INFORMATION

Does not contain dairy or gluten. Does not contain artificial aromas, preservatives or coloring agents. Capsule exclusively composed of ingredient from vegetable origin.

Suitable for vegetarian consumers.

Cerule has no knowledge of any contraindications to consume **StemEnhance ULTRA** in case of pregnancy or breastfeeding. However, as a precaution, we advise to consult your physician as pregnancy and breastfeeding represent specific health conditions.

Cerule has no knowledge of any contraindications or interactions to consume **StemEnhance ULTRA** with any medication. However, if you are taking a treatment or if your health requires a medical follow-up, we advise to consult your physician. Not advised for people taking anticoagulant medication.

FAQ'S

What are the ingredients in StemEnhance ULTRA (SEU)?
StemEnhance is a patented and clinically tested extract of Aphanizomenon Flos Aquae (AFA), with Fucoidan from Undaria pinnatifida and Mesenquine a Cerule exclusive and patented concentrate from Spirulina. These 3 ingredients work in synergy to support the mobilization of your adult stem cells.

Can StemEnhance ULTRA be used with Cerule supplements (PlasmaFlo® and Cyactiv®) or with other supplements?
Yes, Cerule products can be consumed together and have been created to act in synergy for optimal wellness. Cerule has no knowledge of any contraindications or interactions from consuming **StemEnhance ULTRA** with any other supplements.

REFERENCES

Drapeau C., Antarr D., Ma H., Yang Z., Tang L., Hoffman R. M. & Schaeffer D.J., 2010, Mobilization of bone marrow stem cells with StemEnhance® improves muscle regeneration in cardiotoxin-induced muscle injury, Cell Cycle, 9:9, 1819- 1823, DOI: 10.4161/cc.9.9.11540

Drapeau C., Eufemio G., Mazzoni P., Roth G., and Strandberg S., 2012 The Therapeutic Potential of Stimulating Endogenous Stem Cell Mobilization, Tissue Regeneration – From Basic Biology to Clinical Application, Chapter 8, 167-202, ISBN: 978-953-51-0387-5

El Akabawy G. & El Mehi A., 2015, Mobilization of endogenous bone marrow-derived stem cells in athioacetamide-induced mouse model of liver fibrosis, Tissue Cell, Volume 47, Issue 3, Pages 257-265

Finamore A., Palmery M., Bensehaila S., Peluso I., 2017, Antioxidant, Immunomodulating and Microbial-Modulating activities of the Sustainable and Ecofriendly Spirulina, Oxidative Medicine and Cellular Longevity, 3247528:1-14.

Fung A., Hamid N., Lu J., 2013, Fucoxanthin content and antioxidant properties of Undaria pinnatifida, Food Chemistry, 136:1055+1062.

Irhimeh M. R., Fitton J. H., Lowenthal R. M., Fucoidan ingestion increases the expression of CXCR4 on human CD34+ cells, Experimental Hematology 35 :989–994.

Ismail Z., Kamel A., Yacoub M., Aboulkhair A., et al. 2013 The Effect of In Vivo Mobilization of Bone Marrow Stem Cells on the Pancreas of Diabetic Albino Rats (A Histological & Immunohistochemical Study), International Journal of Stem Cells Vol. 6, No. 1,1:11

Jensen G. S., Hart A. N., Zaske L. A. M., Drapeau C., Gupta N., Schaeffer D. J., Cruickshank J. A., 2007, Mobilization of human CD34+CD133+ and CD34+CD133+ stem cells in vivo by consumption of an extract from Aphanizomenon flos-aquae – related to modulation of CXCR4 expression by an L-selectin ligand ?, Cardiovascular Revascularization Medicine 8:189-202.

Karkos P. D., Leong S. C., Karkos C. D., Sivaji N., Assimakopoulos D. A., 2011, Spirulina in clinical practice: evidence-Based Human Applications, Evidence- Based Complementary and Alternative Medicine, 531053:1-4.

Pietri Anne-Marie, 2011, L'aliment le plus complet de la planète, Editions Lanore.

FOR MORE INFORMATION

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Cerule Caring Crew will answer all your questions by phone at 1 (949) 220-2622 or by email at caringcrewus@cerule.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.