

Oystermax[®] Pure Oyster Extract Powder

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About our company

Marine Health Foods is a specialized producer of marine extracts, carefully selected for purity and strength from the pure Atlantic Ocean waters. Based at a facility in the picturesque countryside of Aughrim, Co. Wicklow.

Our flag ship product, OysterMax[®], is a nutrient dense oyster extract powder made exclusively from Irish oysters.

Approved under:

- SFPA (Sea Food Protection Authority),
- HSE (Health Service Executive),
- FSAI registered,
- Compliant with CFR for export to the US under FDA (Food and Drug Administration).

About our product

OysterMax[®] is derived from Irish Oysters of the Species *Crassostrea gigas*.

OysterMax[®] is used as a dietary supplement by health practitioners in the EU and USA for various aspects of human health, although it has many other applications.

OysterMax[®] is a single ingredient product comprised solely of Oyster Extract Powder. Each batch is tested for heavy metals, microbiological profile and analytical constituents so you know what the label says is accurate 100% of the time.

COA's available on request.

Production and high quality

- Oysters used are naturally sourced in a sustainable manner.
- Oysters are delivered and processed on the same day.

- All processing takes place in a food grade environment.
- We use a careful drying process to maintain the integrity of the vitamins and minerals found within.
- No Vitamins or Minerals are added artificially making them highly bioavailable.
- Due to the low aW and moisture content OysterMax® is stable throughout shelf life and can be stored up to 3 years from production.
- Quality checks are carried out both in house and by external accredited labs during production.
- Full traceability maintained.

Product Benefits
High in Zinc
High in Vitamin B12
High in Copper
Source of Iodine
Naturally occurring Selenium
No GMO's
No irradiation
No fillers
No colours
No additives
100% oyster extract powder

Table 1

Health benefits - The science

OysterMax® is high in Zinc, Vitamin B12 and Copper a source of Iodine and naturally occurring Selenium which support normal:

- Immune system
- Hair
- Skin
- Nails
- Vision
- Bones
- Energy yielding metabolism for increased energy
- Cognitive health
- Nervous system
- Testosterone levels in the blood
- Fertility and reproduction

- Thyroid function
- Reduction of tiredness and fatigue.



Figure A

Product Uses
Suitable for use as a Dietary Supplement
Suitable for use in Food
Suitable for use in Pet Feed

Table 2



Figure B

A serving of only 1.2g can provide the following of the recommend daily intake:

- 45% of B12
- 40% of zinc
- 32% of copper
- 16% iodine
- 8 - 10% selenium.

These vitamins and minerals are highly bioavailable for best efficiency as they are naturally occurring within our product.

Services we provide

Marine Health foods offers Oyster Extract Powder in 3KG food grade bags, fully sealed to maintain products integrity. Alternate sizes available.

We can also do unique dietary supplement formulations and small runs for your practice. Also available as Finished Product. The finished product is pure oyster extract powder encapsulated in a vegetarian capsule composed of Hypromellose (HPMC).

Stimulation of antioxidant activity in human skin dermal cells with OysterMax®

Introduction

There is increasing evidence that intrinsic and premature skin aging is the result of prolonged exposure to reactive oxygen species (ROS) produced during oxidative stress. Whilst skin possesses a complex antioxidant defence system to deal with oxidative stress, excessive or prolonged exposure to UV radiation during sunlight exposure or environmental agents such as pollution, smoke and alcohol

can overwhelm the skin's antioxidant response, leading to oxidative damage and premature skin aging. As the effectiveness of the skin's antioxidant system is diminished with age, dietary supplementation with antioxidants may provide a protective strategy against age-associated skin oxidative damage. The aim of this study was to examine the effects of OysterMax® supplementation on antioxidant activity in human dermal fibroblasts.

Study method

Normal primary human skin fibroblasts derived from adult female skin dermis were cultured in the laboratory by scientists for in-vitro testing. Antioxidant activity of OysterMax® was determined by monitoring the intracellular generation of ROS in dermal fibroblasts with a cell fluorescent label. Control cells were grown in medium with no supplements or with vitamin E, a well-known antioxidant.

Study results

OysterMax® supplementation significantly stimulated antioxidant activity in skin dermal fibroblasts compared to the control during oxidative stress (Figure 1).

Antioxidant activity in skin cells as demonstrated by OysterMax® is important as this activity can prevent or repair the damage caused by ROS, which has been incriminated in the development of wrinkles and premature skin ageing.

The effects of OysterMax® on superoxide dismutase activity in human dermal skin cells introduction

Human skin is vulnerable to damage by reactive oxygen species (ROS) generated in a number of biological processes. Whilst skin possesses a complex antioxidant defence system to protect against oxidative stress, prolonged exposure to UV radiation (sunlight exposure) or environmental agents (pollution, smoke and alcohol) can overwhelm the skin's antioxidant response. This can lead to oxidative damage and premature skin aging. Superoxide dismutase is an important cellular defence antioxidant enzyme and its location in the cellular mitochondrial matrix represents the first line of antioxidant defence. The aim of this study was to examine the effects of OysterMax® supplementation on superoxide dismutase activity in human dermal fibroblasts.

Study method

Normal primary human skin fibroblasts derived from adult female skin dermis were cultured in the laboratory for in-vitro testing. The effects of OysterMax® supplementation on superoxide dismutase activity in dermal fibroblasts was measured by monitoring enzyme activity in cells during oxidative stress. Control cells were grown in medium with no supplements or with vitamin E.

Study results

Preliminary studies indicate that OysterMax® can support superoxide dismutase activity in dermal fibroblast cells (Figure 1).

This is important as superoxide dismutase is a first line cellular antioxidant enzyme in skin which plays a key role in defence against oxidative damage and premature skin aging.

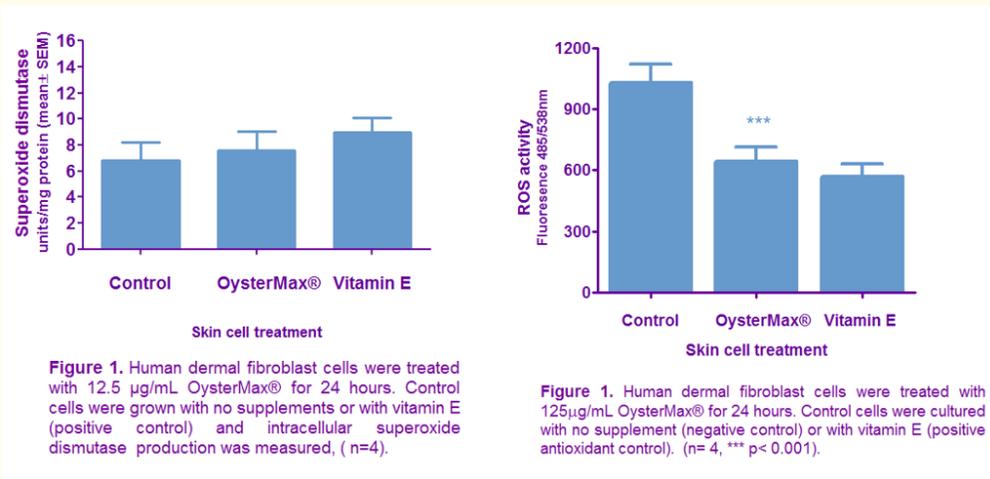


Figure 1

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