

Ultra-high purity Ergothioneine Content $\geq 99\%$

Bioyouth™-EGT Pure

Ultrapure Ergothioneine

Mitochondria-targeting antioxidant factor
【Scavenge free radicals, anti-photoaging】



Biomanufacturing



**High Purity
High Stability**



Sustainability

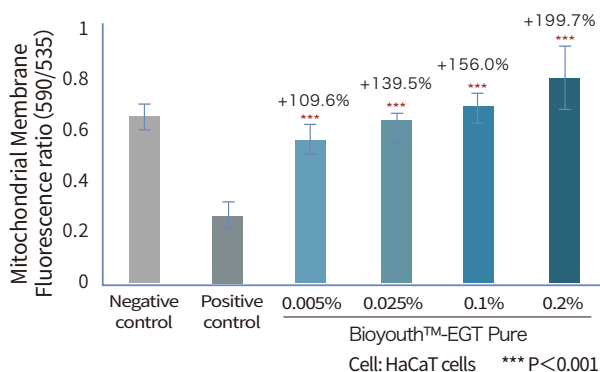
Bioyouth™-EGT Pure Ultrapure Ergothioneine is obtained through advanced biology technology, and the purity is more than 99%. Bioyouth™-EGT Pure will easily permeate into cells and mitochondria through the transporter OCTN-1 in cells membrane and mitochondria, and then directly remove reactive oxygen free radical, further, Bioyouth™-EGT Pure play a key role in anti-oxidation, anti-photoaging and protection of cells and mitochondrial DNA.

INCI Name: Ergothioneine
Natural Origin Index: 1
Recommended Dosage: 0.01-1%

Application: Anti-aging, anti-oxidant products, skin protection, skin regeneration, sun care products.
Storage: Kept airtight in the dark, cool dry place.

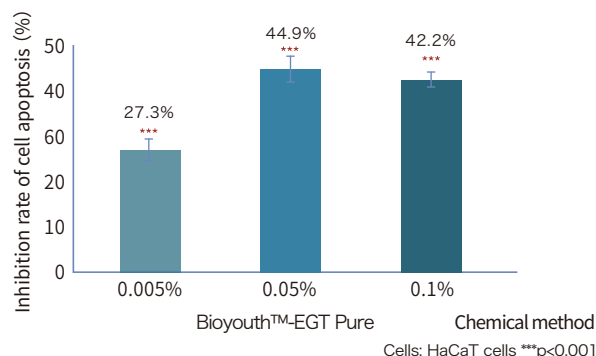
In-vitro tests

Protect mitochondria from UV damage



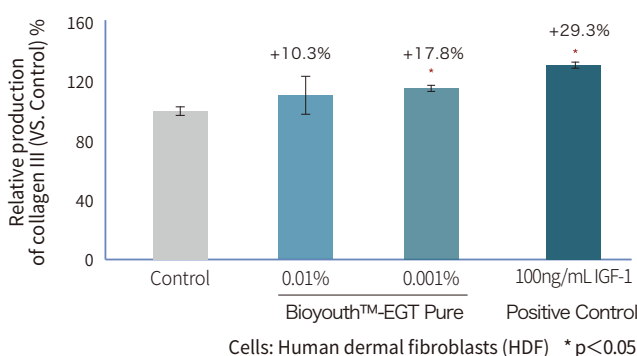
Compared with the positive control group, the MMP value of the Bioyouth™-EGT Pure treatment group was significantly increased and had a stronger protective effect on mitochondria, with the best effect of 0.2%.

Reduce apoptosis



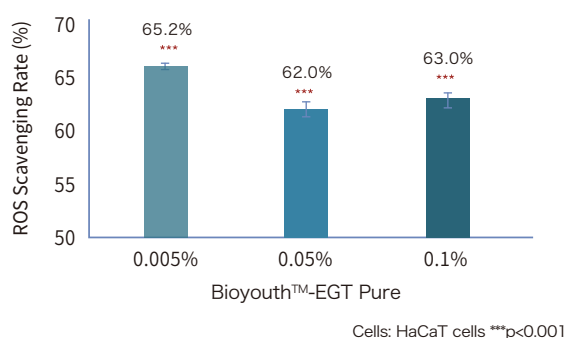
UVB can cause cell apoptosis, before UVB irradiation, treating cells with 0.05% Bioyouth™ EGT Pure can significantly reduce the proportion of cell apoptosis, indicating that Bioyouth™ EGT Pure can protect cells from cell damage caused by UVB.

Promote collagen III synthesis



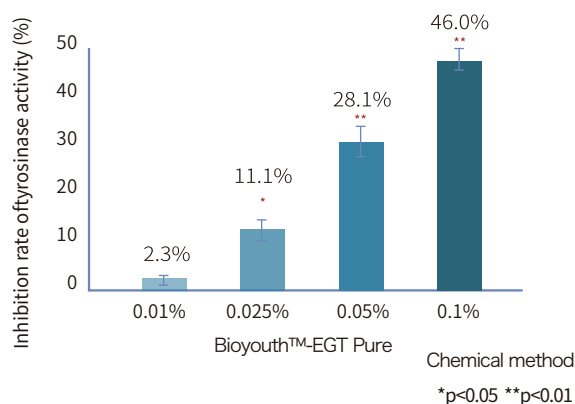
0.001% Bioyouth™-EGT Pure significantly promoted the production of collagen III, which was increased by 17.8% compared with the control group.

Scavenge ROS free radical



UVA+UVB will stimulate the production of ROS in cells, and 0.005% EGT Pure can remove 65.2% of ROS to reduce the oxidative damage caused by UV.

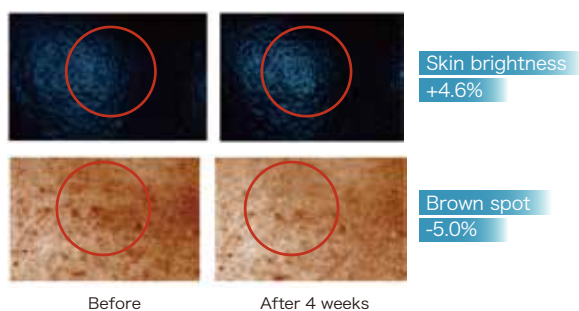
Brightening



Bioyouth™-EGT Pure with content of 0.1% significantly reduced tyrosinase activity, it is suggested that Bioyouth™-EGT Pure has a brightening effect on skin.

In-vivo tests

Improve skin brightness and brown spot



Volunteers applied the lotion containing 0.1% Bioyouth™-EGT Pure continuously for 4 weeks and experienced a significant improvement in skin radiance, and the brown spots on the skin were effectively reduced.



CREATIVE TECHNOLOGY FOR VIBRANT LIFE

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