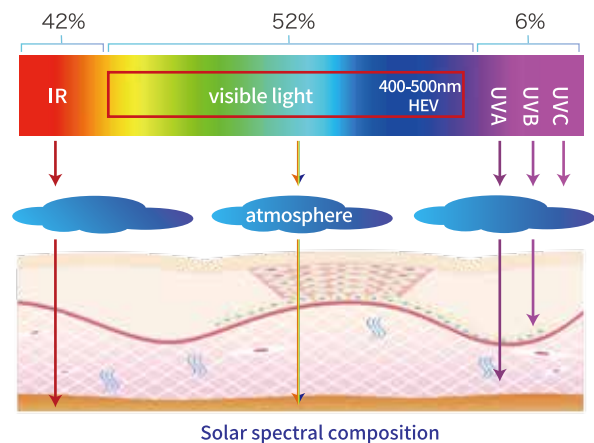


Bioyouth™-BLC BlueLight Care

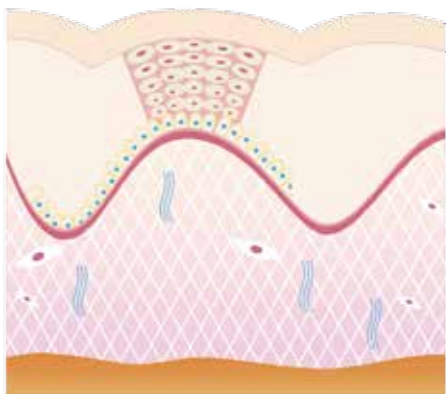
- Antioxidant ·Brightening
- A Scientific Combination with Three-dimensional Protection
- Full Spectrum Protection

Full Spectrum Protection

The damage to the skin caused by ultraviolet light at different wavelengths has been widely accepted but not universally recognized for the damage caused by visible light. Studies show that the 400nm-500nm blue light band (also known as high-energy visible light) causes skin cells to produce large amounts of ROS and activates mitochondria chromophores and Opsins that increase the production of matrix metalloproteinase-1(MMP-1) and melanin, eventually leading to skin aging and pigmentation.



A Scientific combination with three-dimensional protection



- **Sodium Polyglutamate:** Super High Molecular Weight PGA, effectively provides a silky feeling with film forming protection
- **Sodium Hyaluronate:** Natural moisturizing factor.
- **microHA™:** a Super Active Hyaluronic Acid: deep moisturizing and repairing, Inhibit the release of inflammatory cytokines and scavenges free radicals.
- **Tropaeolum Majus Extract:** reinvigorate skin oxygenation, fight damages induced by blue light
- **Bioecto™ Ectoine:** Protects DNA, proteins and cells from light damage with repairing and anti-aging properties
- **Bioyouth™ -EGT Pro:** Super Active Ergothioneine: anti-oxidant, anti-photoaging, protects mitochondria and reduces spots
- **Trehalose:** Moisturising, anti-radiation, improve the skin's ability to adapt to the environment

Instruction

The main components INCI names: ECTOIN, TREHALOSE, TROPAEOLUM MAJUS FLOWER/LEAF/STEM EXTRACT, ERGOTHIONEINE, TRICHOLOMA MATSUTAKE MYCELIUM FERMENT EXTRACT, SODIUM HYALURONATE, HYDROLYZED SODIUM HYALURONATE, SODIUM POLYGLUTAMATE

Recommended Dosage: 0.5%-10.0%

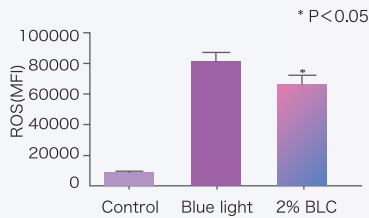
Application: Resist blue light, brightening, anti-photoaging and anti-aging products, repairing and sun care products.

Three-dimensional protection to improve oxidative stress capacity

[Reduce the generation of ROS caused by blue light]

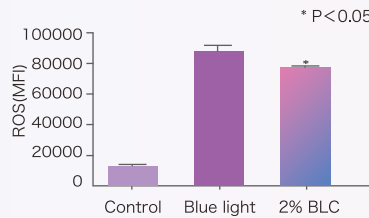
Blue light irradiation causes fibroblasts to produce a large number of ROS. 2% BLC can significantly inhibit the generation of ROS caused by blue light. Compared to the blue light group, adding BLC before blue light irradiation can inhibit the generation of ROS by 17.55%, adding BLC after blue light irradiation can scavenge ROS by 9.99%.

The change of ROS (adding BLC before irradiation)



Model: Fibroblast, Method: flow cytometry

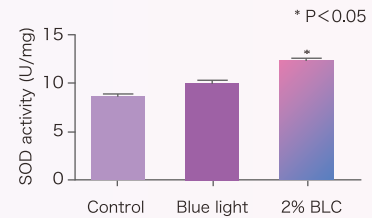
The change of ROS (adding BLC after irradiation)



[Improve the activity of SOD]

Compared to the blue light group, adding BLC after blue light irradiation can improve the activity of SOD by 15.48%.

The change of SOD (adding BLC after irradiation)



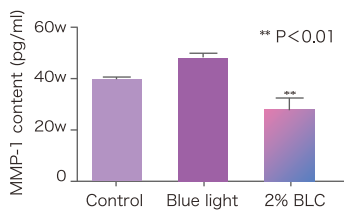
Model: Fibroblast, Method: Chemical color test

Efficient anti-aging, make skin firm and bright

[Inhibit the excessive production of MMP-1 and promote the secretion of collagen]

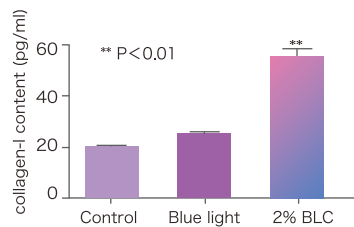
Blue light irradiation can lead to increased production of matrix metalloproteinase-1, collagen degradation, and wrinkles. Compared to the blue light group, 2% BLC can decrease the content of MMP-1 by 36.33%, increase the content of collagen-I by 113.02%, increase the content of collagen-IV in basement membrane by 127.5%.

Inhibit the excessive production of MMP-1



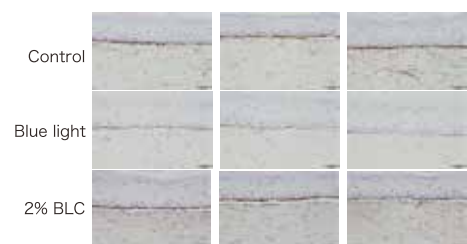
Model: Fibroblast, Method: ELISA

Promote the secretion of collagen I



Model: Fibroblast, Method: ELISA

Promote the secretion of collagen IV

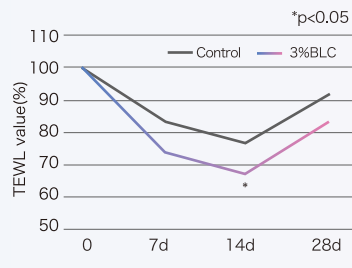


Model: FulKutis® Method: Immunohistochemistry

[Improve skin barrier and enhance skin gloss]

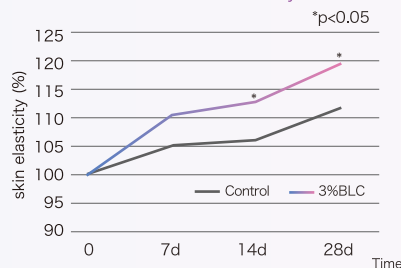
In-vivo test shows that after 4 weeks' application, 3% BLC can decrease the TEWL by 9%, increase skin elasticity by 7% and skin gloss by 6%.

Decrease the TEWL

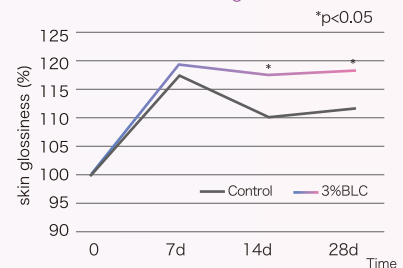


in-vivo test, 20 volunteers, Half-face control, Double-blind test.

Increase skin elasticity



Increase skin gloss



让每个生命都是鲜活的
CREATIVE TECHNOLOGY FOR VIBRANT LIFE

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