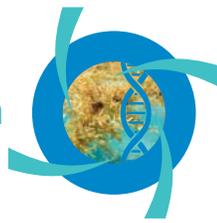


skin rejuvenation and protection



DermalRx® FSE



protects DNA against UV damage
Phlorotannins
stimulates DNA repair in skin cells

DermalRx FSE

a marine ferment of *Sargassum vulgare* extract rich in bioactive phlorotannins

Skin cells, especially those on unprotected areas of the face and hands, suffer from frequent exposure to sunlight and other environmental threats. The resulting high rate of DNA damage compromises skin function, threatening healthy, youthful appearance. DermalRx® FSE, a marine ferment of *Sargassum vulgare* is rich in bioactive phlorotannins that rejuvenate and protect through the stimulation of the skin's natural Nucleotide Excision Repair (NER) process of DNA repair. Additionally, DermalRx FSE delivers strong anti-pollution activity while inhibiting oxidation and inflammation - it's an ideal candidate for any protection or repair product.

DermalRx® FSE

Product ID – R10111

Suggested Use Level – 0.5% - 2.0%

Water (and) *Sargassum Vulgare* Extract (and) Saccharomyces Ferment Filtrate

Applications

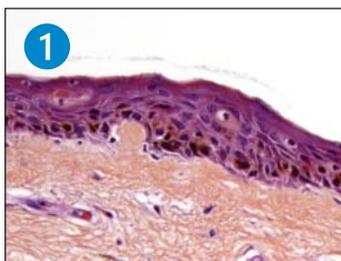
- De-stressing anti-aging regimes to enhance natural skin repair.
- Anti-aging regimes targeting oxidative and inflammatory damage (caused by pollution, UV radiation, etc.).
- Day creams and pre/post-sun products.



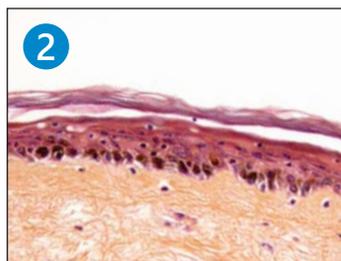
Sargassum vulgare

Sargassum vulgare grows in shallow coastal areas of the Atlantic and Indian Oceans. It also thrives as large, free-floating mats, most notably in the vast Sargasso Sea area of the North Atlantic. Because of its growth habit, thriving at the water's surface in tropical and semi-tropical areas, *S. vulgare* is constantly exposed to intense, DNA-damaging UV radiation from sunlight. To counter this severe stress, the plant contains high levels of phlorotannins.

DermalRx® FSE Stimulates DNA Repair - all tissues fixed 24 hours after UV irradiation



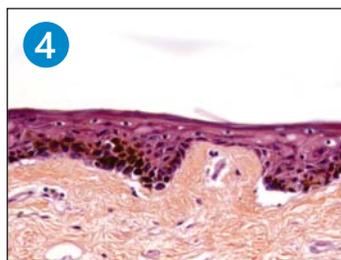
untreated / no UV irradiation



treated / no UV irradiation

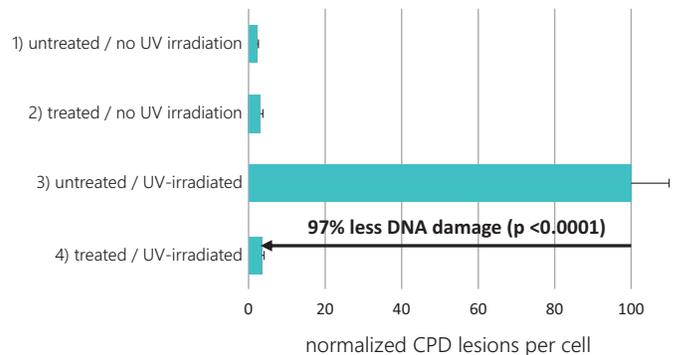


untreated / UV-irradiated



treated / UV-irradiated

The test measured the effect of a daily use O/W emulsion containing 2% DermalRx® FSE. 24 hours after UV exposure the tissues treated with DermalRx® FSE had 97% less DNA damage than untreated tissues. DermalRx® FSE also stimulates tissue repair and completely eliminates CPD lesions within 24 hours of UV exposure.



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