

COSMETIC INGREDIENT OF MARINE ORIGIN



COSMETIC
DERMOCOSMETIC

SULPHATED POLYSACCHARIDE EXTRACTED FROM RED ALGAE THAT MODULATE VEGF EXPRESSION

Sulfated polysaccharides extracted from red algae show the same molecular architecture than natural skin component carbohydrate structures (glycosaminoglycans) like hyaluronic acid or heparin.

That structural homology allows extracted polysaccharides to mimic several biological activities. *In vitro* studies shows good activities to modulate VEGF secretion in induced cellular stress conditions. Those results allows us to consider skin care applications especially for rosacea, atopic dermatitis, eczema, psoriasis, acne or skin redness.



Competitive Advantages

- Natural origin ingredient
- Several applications for skin care
- Application for cosmetics and dermocosmetics

Development Status

- Extraction process set up from raw material to characterized sulphated polysaccharides at the lab scale.
- POC in vitro : study on keratinocyte shows that VEGF production in cells treated with sulphated polysaccharides is inhibited in a inflammatory stress conditions. **Red algae extract is a modulator of VEGF expression.**
- POC in vitro : study on keratinocyte shows that IL8 production in cells treated with sulphated polysaccharides is not modified compared to control. **Red algae extract is well tolerated by cells.**

Business Opportunities

- Dermocosmetic market access with application to several skin problems :
 - rosacea,
 - atopic dermatitis,
 - eczema,
 - psoriasis,
 - acne,
 - and skin redness.
- New ingredient from marine origin

#Keywords

Red algae
Natural origin ingredient
VEGF modulation
Sulphated polysaccharide

Research Team

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Partnership

Licensing or co-development

Intellectual Property

FR1658201 pending
PCT/EP2017/071492 pending

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