

The whitening effects of edible green alga extracts

食用綠藻萃取物之美白功效研究

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The economic growth rate in cosmetic industry was retained about 7% to 8% in past two years in Taiwan. For expanding cosmetic market, manufacturers achieve the purpose of industrial innovation so that new materials should be constantly developed. Green algae extract was safe as food, but there were a few study in the cosmetic field. To increase the value of this algae, we researched this algae extract in skin whitening effect. In this study we used zebrafish *in vivo* and B16-F10 melanoma cells *in vitro* for skin whitening effect of algae extract. Furthermore, we also used RAW264.7 macrophages to investigate the anti-inflammatory effects of algae extract because many diseases related with inflammation . We expect this algae extract through this platform to develop a cosmetic medicine.