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Algal bioactive compounds in the cosmeceutical industry: a review

R. Gharekhan¹, *M. Kordjazi¹, A. Adeli¹ and F. Adousi²

¹Dept. of Seafood Processing, Faculty of Natural Resources, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran,

²M.Sc. Student, Dept. of Seafood Processing, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran

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Abstract

Water environments have numerous bioactive compounds for the cosmeceutical industries. Macro and microalgae are including of proteins, amino acids, carbohydrates, vitamins, pigments, polyphenols and minerals playing an important role in skin health and are used in various industries such as cosmetics and pharmaceuticals. Many algae-derived secondary metabolites have topical applications, including protecting the skin from UV, preventing dry skin and reducing wrinkles, also, due to the presence of antioxidant compounds, they are used as anti-aging ingredients. Production of a variety of cosmetics using bioactive compounds from algal extract, due to derivation of natural sources, is increasing. In this study, although the effects of some of these compounds are described, but the impact of algae in the cosmeceutical industry in terms of biological compounds and mechanisms involved in their functions are still unclear, For this reason, most biomolecules in a variety of algal species have not yet been studied and are not used for cosmetic purposes.

Keywords: Algae, Topical products, Biotechnology