Extraction of fucoxanthin from brown algae Colpomenia sinuosa and study of its antioxidant effect

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Abstract

The aim of this study was extraction of fucoxanthin pigment from brown algae Colpomenia sinuosa in Qeshm Island (winter, 7.19) and to investigate its antioxidant effect. In order to extract fucoxanthin pigment, these algae were used in medium containing methanol solvent and by chromatography (HPLC), column \\\\ with fixed phase, Silica peak presence of fucoxanthin {Ret Time} in ", A9" minutes and with concentration of 14,700 (with Calculation of the area below the peak level) was obtained. To evaluate the antioxidant effect of free radical inhibition DPPH, the result of ICo. based test was ., 79 mM and it was matched with two control samples and tested at three concentrations of \, \, \, \) and \, \, \) mg / ml of fucoxanthin.

Keywords: Brown algae, Colpomenia sinuosa, Fucoxanthin, Antioxidants, DPPH, Persian Gulf.