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Antioxidant activity of extract from a red Alga

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Background and Aims: The present study was conducted to evaluate the antioxidantactivity ofmethanolextract (ME), as well as the phenolic compounds of red algae Hypneacornuatain three different sites of Gheshm Island, Iran.
Methods: Amount of total phenolic compounds in ME was measured using Folin-Ciocalteuassay.Antioxidant activity (the free radical scavenging activity) of algae extract was measured by the 2, 2 Diphenyl-1-picrylhydrazyl (DPPH) method.
Results: Amount of total phenolic compounds in ME was as average about 5.6±0.3 µg/g of dry sample among three stations. This alga was showed high radicalscavengingactivity (RSA) .The antioxidant effects of the extracts were comparedwith those of commercial antioxidants, such as butylatedhydroxytoluene (BHT),butylatedhydroxyanisol (BHA) and ascorbic acid (AA).
Conclusions: The phenolic constituent appears to be responsible at least in part, for the observed antioxidant activity of the algal extract. The results suggest that this alga could be a potential source of natural antioxidant

Keywords: Antioxidant activity; Phenolic compounds; Hypneacornuata