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Determination of Element Compositions and Antioxidant Activities of *Kappaphycus alvarezii* Found in the Waters of Langkawi and Sabah, Malaysia

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Abstract :The element composition and antioxidant properties of the two red seaweeds *Kappaphycus alvarezii*, from Lankawi and Sabah in Malaysia were determined. The results indicate that the two red seaweeds contained high levels mineral such as K. There were no significant differences in TPC (26.81-28.04 $\mu\text{mol}/100\text{g}$ GAE), DPPH (18.75-22.76%), ORAC (235.12-530.24 $\mu\text{mol}/100\text{g}$ TE) between the two seaweeds. This study suggested that *Kappaphycus alvarezii* from both habitats could be used as ingredients to improving nutritive value and functional properties in human diets.

Keywords: *Kappaphycus alvarezii*, element composition, DPPH, TPC, ORAC, antioxidant activities.

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