

Isolation of antioxidant bioactive compound from the marine mollusk, *Phalium glaucum* (Linnaeus, 1758)

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The natural products offer great hope in the identification of bioactive compounds and their development into drugs for the treatment of various diseases. Molluscs are considered as one of the important sources to derive bioactive compounds that exhibit antitumor, antimicrobial, anti-inflammatory and antioxidant activities. Molluscs also contain rich nutrients that are beneficial to people of all ages. In our body, oxidation process leads to cell damage, cancer and degenerative diseases, antioxidant molecules present in different molluscs prevent cell damage from oxidation reaction. Current research in free radicals has confirmed that foods rich in antioxidants play an essential role in the prevention of cardiovascular diseases, cancers and neurodegenerative diseases including Parkinson's and Alzheimer's diseases, as well as inflammation and problems caused by cell and cutaneous aging. In the present study the methanolic extract of gastropod *Phalium glaucum* was found to exhibit good scavenger of DPPH radical with percentage inhibition of 8.87% at 50µg/ml concentration, 19.47% at 100µg/ml and 33.64% at 150µg/ml concentration. Of the eleven compounds isolated through GC-MS analysis cholesterol was found to be responsible for antioxidant activity. The result of the present study reveals that the methanolic extract of *Phalium glaucum* has moderately good antioxidant activity and this extract can be served as an iconic agent of antioxidants.

KEY WORDS:

Phalium glaucum, Antioxidant activity, Methanol, DPPH radical, GC-MS