

ANTIOXIDANT PROPERTIES OF FLAVONOIDS EXTRACTED FROM SOME VIETNAMESE MEDICINAL PLANTS

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ABSTRACT

This study aims extracting of flavonoids, determinating total flavonoids contents and antioxidant properties due to DPPH radical scavenging reaction of four medicinal plants (*Hedyotis diffusa*, *Carica papaya*, *Pseuderanthemum bracteatum* and *Scutellaria barbata*). The results showed that extracting by using ultrasonic method at 50°C with methanol solvent was chosen. Total flavonoids contents and IC₅₀ values of *Hedyotis diffusa*, *Carica papaya*, *Pseuderanthemum bracteatum*, *Scutellaria barbata* were determinated, 5.83 mg/g dw and 60.50 µg/ml, 12.15 mg/g dw and 62.17 µg/ml, 3.99 mg/g dw and 90.36 µg/ml, 4.01 mg/g dw and 69.68 µg/ml, respectively.

Keywords: flavonoid, antioxidant, *Hedyotis diffusa*, *Carica papaya*, *Pseuderanthemum bracteatum*, *Scutellaria barbata*.