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Type of study and model used	Results	Mechanism	R
Effects of water extract from <i>C. asiatica</i> on the mortality of human lung cancer cells (A549) with the use of novel 3-D scaffolds infused with CMC hydrogel.	<i>C. asiatica</i> extract showed antiproliferative activity against A549 and there were no cytotoxic effects on human normal fibroblast cells (MRC5).	<i>C. asiatica</i> extract induces apoptosis and mortality in A549 cells.	8
Protective effect of <i>C. asiatica</i> leaf aqueous extract on learning and memory of albino rats.	Rejuvenate the brain and nervous system thus exhibits significant effect on learning and memory process.	Decreasing level of norepinephrine, dopamine, and 5-HT in the brain.	5
Aqueous extract of <i>C. asiatica</i> tested against streptozotocin-induced cognitive impairment and oxidative stress in rats.	Cognitive enhancing and antioxidant properties.		5 12
Effect of different extracts (aqueous, methanolic and chloroform) extracts of <i>C. asiatica</i> on cognition and markers of oxidative stress in rats.	Improved learning and memory and increased antioxidant property.	Decreasing lipid peroxidation and augmenting the endogenous antioxidant enzymes in brain.	6 12



ASEAN Food Journal 14 (1): 61-68 (2007)

Antioxidative Activities of Water Extracts of Some Malaysian Herbs

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Abstract: This study was conducted on selected local herbs such as ulam raja (*Cosmos caudatus*), kesum (*Polygonum minus*), selom (*Denanthe javanica*), pegaga (*Centella asiatica*) and curry leaves (*Murraya koenigii*) to investigate their antioxidative activities. The water extracts of the herbs were analysed for total phenolic content, reducing antioxidant power, ferric thiocyanate (FTC) and the thiobarbituric acid (TBA) test was also carried out. *Polygonum minus* showed the highest total phenolic content and reducing power among the herbs. Increasing the concentration of the extracts resulted in increased Fe²⁺ reducing antioxidant power for all the herbs. FTC and TBA tests on the extracts during seven days of storage showed that all the herbs extracts had the ability to reduce oxidation compared to the control ($P < 0.05$). From the FTC analysis, *Murraya koenigii* leaves was best in reducing the oxidation rate (67.67%) compared to the other herbs studied. Analysis of TBA showed that *Centella asiatica* extract had the highest antioxidant effect. However, both TBA and FTC analysis for these two herbs showed no significant difference ($P > 0.05$) from *Polygonum minus* and butylated hydroxyanisole (BHT) a synthetic antioxidant. Correlation analysis showed positive correlations between amount of total phenolic content and reducing power ($r = 0.75$) and antioxidative activities ($r = 0.58$) in linoleic acid emulsion system. This shows that antioxidative activities of these Malaysian herbal plants especially *Polygonum minus* may be a potential source of natural antioxidants with similar characteristics to the synthetic antioxidant, BHT.

Keywords: Antioxidative activities, Malaysian herbs, total phenolic content, reducing power, Thiobarbituric Acid (TBA)

INTRODUCTION

Plants are potential sources of natural antioxidants. They produce various antioxidative compounds to counteract reactive oxygen species (ROS) in order to survive (Lu and Foo, 1995). ROS which include free radicals such as superoxide anion radicals (O₂⁻), hydroxyl radicals (OH[•]) and non free-radical species such as H₂O₂ and single oxygen ('O₂) are various forms of

activated oxygen. These molecules are exacerbating factors in cellular injury and aging process (Gulcin *et al.*, 2003). In addition, ROS induce some oxidative damage to biomolecules like lipids, nucleic acids, proteins and carbohydrates. Their damage causes aging, cancer and many other diseases (Aruoma, 1994). In foods, ROS can cause lipid peroxidation, which leads to the deterioration of the food (Miller and Rice-Evans, 1997). The oxidative deterioration of the lipid-containing

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ISSN 2188-3289

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