International Journal of ChemTech Research
CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.9, No.07 pp 154-160, 2016

Antioxidant Activity of MAE Extracted Teak (*Tectona Grandis* L.F.) Leaves Collected from Different Plantation Site at Java Island, Indonesia

Joni Kusnadi[1*], Estri Laras Arumingtyas[2], Dian Widya Ningtyas[1], Elina Cynthia Setiawan[1]

[1]Department of Food Science and Technology, Faculty of Agricultural Product Technology, Brawijaya University, Jl. Veteran Malang 65145, Indonesia, [2]Department of Biology, Faculty of Science, Brawijaya University, Jl. Veteran, Malang 65145, Indonesia

Abstract : Antioxidant properties of teak leaves collected from Cepu, Central Java, Indonesia which was extracted using Microwave Assisted Extraction (MAE) and soxhlet extraction was identified. The antioxidant activity was measured based on total phenol content, DPPH radical scavenging activity and H_2O_2 scavenging activity. MAE significantly produced higher antioxidant properties in shorter time compared to soxhlet extraction, however, the antioxidant properties of teak leaves collected from Cepu, was not significantly different from that collected from Blitar and Madiun, East Java. Different types of soil seem not affect the antioxidant properties of teak.
Keywords: Antioxidant, Cepu, MAE, Plantation site, Teak (*Tectona grandis* L.f.).

Joni Kusnadi *et al* /International Journal of ChemTech Research, 2016,9(7),pp 154-160.

*****