Author's Accepted Manuscript

Antioxidant properties of *Etlingera pubescens*, an edible ginger plant endemic to Borneo

Delhousie Daniel-Jambun, Kuan Shion Ong, Yau Yan Lim, Joash Ban Lee Tan, Wai Leng Lee, Azira Muhamad, Sau Wai Yap, Sui Mae Lee



www.elsevier.com/locate/sdj

PII: S2212-4292(18)30191-3

DOI: https://doi.org/10.1016/j.fbio.2018.07.007

Reference: FBIO318

To appear in: Food Bioscience

Received date: 26 February 2018 Revised date: 13 July 2018 Accepted date: 13 July 2018

Cite this article as: Delhousie Daniel-Jambun, Kuan Shion Ong, Yau Yan Lim, Joash Ban Lee Tan, Wai Leng Lee, Azira Muhamad, Sau Wai Yap and Sui Mae Lee, Antioxidant properties of *Etlingera pubescens*, an edible ginger plant endemic to Borneo, *Food Bioscience*, https://doi.org/10.1016/j.fbio.2018.07.007

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Antioxidant properties of Etlingera pubescens, an edible ginger plant endemic to Borneo

Delhousie Daniel-Jambun^a, Kuan Shion Ong^{a,d}, Yau Yan Lim^a, Joash Ban Lee Tan^a, Wai Leng Lee^a, Azira Muhamad^b, Sau Wai Yap^c, Sui Mae Lee^{a,d*}

^aSchool of Science, Monash University Malaysia, Selangor, Malaysia.

^bStructural Biology and Biophysics Facility, Malaysia Genome Institute, National Institutes of Biotechnology Malaysia (MOSTI), Selangor, Malaysia.

^cConservation and Environmental Management Division, Yayasan Sabah Group, Sabah, Malaysia.

^dTropical Medicine and Biology, Monash University Malaysia, Selangor, Malaysia.

*Corresponding author. Dr. Sui Mae Lee, School of Science, Monash University Malaysia, Jalan Lagoon Selatan, 47500 Bandar Sunway, Selangor, Malaysia. Office no: +60355146093; fax: +60355146364. lee.sui.mae@monash.edu

Abstract

Zingiberaceae is a family that consists of many edible ginger plants. *Etlingera pubescens* (B.L.Burtt & R.M.Sm.) R.M.Sm. was studied for its antioxidant properties. Preliminary screening of the methanol extracts of its leaves, stems, rhizomes showed that the fresh leaves had the highest antioxidant activity, with total phenolic content (TPC), ascorbic acid equivalent antioxidant capacity (AEAC), and oxygen radical absorbance capacity (ORAC) values of $1020 \pm 20 \, \text{mg}$ GAE/ $100 \, \text{g}$, $1130 \pm 30 \, \text{mg}$ AAE/ $100 \, \text{g}$, and $140 \pm 30 \, \text{\mu}$ mol TE/g, respectively.

Download English Version:

https://daneshyari.com/en/article/6488706

Download Persian Version:

https://daneshyari.com/article/6488706

<u>Daneshyari.com</u>