

## Documents

Ibrahim, M.<sup>a b</sup>, Azziz, S.S.S.A.<sup>b</sup>, Wong, C.F.<sup>c</sup>, Mohd Hassan, N.<sup>d</sup>, Mhd Bakri, Y.<sup>b</sup>, Abdel-Aal, A.-B.M.<sup>b e</sup>

**Secondary Metabolites from Aquilaria subintegra Leaves and their Radical Scavenging Activity**  
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<sup>a</sup> Department of Environmental Engineering, Faculty of Engineering and Green Technology, Universiti Tunku Abdul Rahman, Kampar Campus, Perak, Kampar, 31900, Malaysia

<sup>b</sup> Department of Chemistry, Faculty of Science and Mathematics, Universiti Pendidikan Sultan Idris, Perak, Tanjong Malim, 35900, Malaysia

<sup>c</sup> Department of Biology, Faculty of Science and Mathematics, Universiti Pendidikan Sultan Idris, Perak, Tanjong Malim, 35900, Malaysia

<sup>d</sup> Kulliyah of Pharmacy, International Islamic University Malaysia, Pahang, Kuantan, 25200, Malaysia

<sup>e</sup> Department of Pharmaceutical Organic Chemistry, Faculty of Pharmacy, Assiut University, Assiut, 71526, Egypt

#### Abstract

The present study reports on the isolation, purification and antioxidant activity evaluation of the dichloromethane extract of *Aquilaria subintegra* Ding Hou leaves. Four compounds were successfully isolated and purified from the dichloromethane extract using column chromatography. Purification was monitored by thin layer chromatography, and four isolated compounds were identified by spectroscopic analyses such as NMR and mass spectrometry. These compounds were 5-hydroxy-7,4'-dimethoxyflavone, luteolin-7,3',4'-trimethyl ether,  $\beta$ -sitosterol and friedelin. Their antioxidant activity was determined using 2,2-diphenyl-1-picrylhydrazyl (DPPH). All compounds exhibited weak antioxidant activity, with inhibition values of less than 30 % at the highest tested concentration (500  $\mu$ g/mL). To the best of our knowledge, the current study is the first to report on the DPPH radical scavenging activity of isolated secondary metabolites from *A. subintegra* leaves. © 2024 Malaysian Institute of Chemistry. All rights reserved.

#### Author Keywords

antioxidant activity; *Aquilaria subintegra*; flavonoids; leaves; steroid; terpene

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**Correspondence Address**

Azziz S.S.S.A.; Department of Chemistry, Perak, Malaysia; email: saripah@fsmt.upsi.edu.my

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