The isolation of two new 2-arylbenzofurans from the stem bark of Turi Plant

Noviany[a,*], Arief Nurhidayat[a], Sutopo Hadi[a], Tati Suhartati[a], Muhammad Aziz[b], Neny Purwitasari[c], and Iman Subasman[d]

[a]Department of Chemistry, Faculty of Mathematics and Natural Sciences, University of Lampung, Bandar Lampung, 35145, Indonesia

[b]Institute of Innovative Research, Tokyo Institute of Technology, 2-12-1 Ookayama, Meguro-ku, Tokyo 152-8550, Japan

[c]Department of Pharmacognosy and Phytochemistry, Faculty of Pharmacy, University of Airlangga, Surabaya, 60286, Indonesia

[d]STAI Al-Ihya, Kuningan, Jawa Barat, 45551, Indonesia

*Corresponding author:

E-mail address: noviany@fmipa.unila.ac.id

Tel.: +62-813777928

Native to tropical Asia, *Sesbania grandiflora* is a member of the Fabaceae family of flowering plants. All parts of *S. grandiflora* are used in traditional medicine, and phytochemical investigations have been conducted on extracts of the leaves, seeds, and roots of *S. grandiflora* to provide scientific validation of its properties. However, to date, no study has determined the phytochemical constituents of the stem bark of *S. grandiflora*. In addition, we evaluated the structures and phytochemical constituents of these compounds using one- and two-dimensional nuclear magnetic resonance, ultraviolet and infrared spectroscopy, and

electrospray ionization time-of-flight mass spectrometry. The heteronuclear multiple bond correlations of each compound were modeled.