## COUMARINS FROM MYANMAR EDIBLE FRUIT TREE (CASIMIROA EDULIS)

Khun Nay Win Tun<sup>a,b</sup>, Nanik Siti Aminah<sup>a\*</sup>, Alfinda Novi Kristanti<sup>a</sup>, Rico Ramadhan<sup>a</sup>, Yoshiaki Takaya<sup>c</sup>, HninThanda Aung<sup>d</sup>

<sup>a</sup>Department of Chemistry, Faculty of Science and Technology, UniversitasAirlangga, KomplekKampus C UNAIR, Jl. Mulyorejo, Surabaya, Indonesia
 <sup>b</sup>Department of Chemistry, Taunggyi University, Shan State (South), Myanmar
 <sup>c</sup>Faculty of Pharmacy, Meijo University, Tempaku, Nagoya, Japan
 <sup>d</sup>Department of Chemistry, Mandalay University, Mandalay, Myanmar

**Abstract:** This research expresses the phytochemical study from the Myanmar edible fruit tree, *Casimiroa edulis* (Rutaceae). The result revealed that the isolation and identification of two furanocoumarins (bergapten 1 and isopimpinellin 2) from the stem bark of this plant. Their molecular structures were elucidated and identified by using NMR spectroscopy in combination with IR, UV and HRMS spectra data, respectively. Furthermore, these two compounds were investigated for their anti-diabetic activity. According to the result, bergapten 1 and isopimpinellin 2 are not essentially good for anti-diabetic activity. This is the first report of two furanocoumarins from the Myanmar edible fruit tree.

**Keywords:** Casimiroa edulis, Furanocoumarins, NMR spectroscopy, anti-diabetic activity