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paper text:

Humboldt Kolleg – International Conference on Natural Sciences, HK-ICONS 2014 Supercritical Co₂ Extraction Of Phytochemical From Herbaceous Plant Felycia Edi Soetaredjoa*, Suryadi Ismadjia, Astrid Rahmawatia, Debora Panga, Calistaa, Melia Stefani Tjipto and Yi-Hsu Jub aDepartment

1 of Chemical Engineering, Faculty of Engineering, Widya Mandala Catholic University Surabaya, Jalan Kalijudan 37 Surabaya 60114, Indonesia

bDepartment of Chemical Engineering, National Taiwan University of Science and Technology,

Taipei, Taiwan Abstract Indonesia has biodiversity, which is evolving source for compounds of medical importance, such as *Stachytarpheta jamaicensis* (L) Vahl (SJL) and *Mimosa pudica* Linn (MPL). Supercritical fluid extraction (SFE) is an attractive alternative for obtaining valuable compounds since it has unique properties that support effective extraction. The extraction of phytochemicals using SC-CO₂ extraction is significantly influenced by pressure and temperature. The SC-CO₂ not only extracted phenolic compounds but also alkaloid compounds even though the result were lower than TPC and TFC. The experimental data of phenolic, flavonoid, and alkaloid extracted from MPL were correlated by density based models. Keywords: Supercritical CO₂; extraction; phenolic compound; *Stachytarpheta jamaicensis*, *Mimosa pudica* * Corresponding author. Tel.: +62-31-3893933; fax: +62-31-3891267. E-mail address: felyciae@yahoo.com