

Isolation of (Z)(2S)-5,6,7,3o,5o-pentahydroxyflavanone-7-O- β -D-glucopyranoside,
from *Lippia graveolens* H.B.K. var. *berlandieri*
Schauer, a new anti-inflammatory and cytotoxic flavanone

M.C. González-Güereca^a, M. Soto-Hernández^b and M. Martínez-Vázquez^{c*}
^aInstituto Politécnico Nacional, Fraccionamiento 20 de Noviembre, 34220 Durango, Dgo,
México; ^bColegio de Postgraduados, Km 36.5 Carretera México-Texcoco 56230, Montecillo,
Texcoco, Edo de México, México; ^cInstituto de Química, Universidad Nacional Autónoma de
México, Circuito Exterior, Ciudad Universitaria, Coyoacán 04510, México D.F., México
(Received 1 February 2010; final version received 17 April 2010)

A new flavanone glycoside, (Z)(2S)-5,6,7,3o,5o-pentahydroxyflavanone-7-O- β -D-glucopyranoside (1), was isolated from the stems of *Lippia graveolens* H.B.K. (Verbenaceae). The structure of 1 was elucidated based on spectral analysis and chemical transformations. The treatment of 1 with acetic anhydride and pyridine afforded the corresponding peracetylated derivative 2, while an acid hydrolysis reaction of 1 afforded a 5,6,7,3o,5o-pentahydroxy flavanone (3). Additionally, the anti-inflammatory and cytotoxic activities of 1, 2 and 3 were determined.

Keywords: *Lippia graveolens*; flavanone; anti-inflammatory; cytotoxic