Antifungal Methylphenone Derivatives and 5-Methylcoumarins from Mutisia friesiana

Carmen I. Viturro\textsuperscript{a}, Juana R. de la Fuente\textsuperscript{b}, and Marta S. Maier\textsuperscript{c,*}

\textsuperscript{a} Facultad de Ingenier\'\i\'a, Universidad Nacional de Jujuy, Gorriti 237, 4600 S. S. de Jujuy, Jujuy, Argentina
\textsuperscript{b} Facultad de Ciencias Exactas, Universidad Nacional de Salta, Buenos Aires 177, 4400 Salta, Salta, Argentina
\textsuperscript{c} Departamento de Qu\'\i\'mica Orga\'\nica, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Ciudad Universitaria, 1428 Buenos Aires, Argentina.
Fax: 541145763346. E-mail: maier@qo.fcen.uba.ar

* Author for correspondence and reprint requests

Z. Naturforsch. 58c, 533–540 (2003); received November 6, 2002/February 27, 2003

In addition to the known mutisicoumarin A, the aerial parts of the shrub Mutisia friesiana afforded five new methylphenones, two new 5-methylcoumarins and a new related chromone. Their structures were elucidated by spectroscopic methods. $^{13}$C NMR data for mutisicoumarin A are reported for the first time. Mutisiphenones A and B and mutisicoumarin A showed antifungal activity against the phytopathogenic fungus Cladosporium cucumerinum.

Key words: Mutisia friesiana, 5-Methylcoumarins, Methylphenone Derivatives