

MATERIAL SUPLEMENTAR

Isolation of antifungal quinoid derivatives from leaves of *Pentacalia desiderabilis* (Vell.) Catre. (Asteraceae) using ionic liquid in the microwave assisted extraction

Kaio de S. Gomes^a, Cinthia I. Tamayose^b, Marcelo José P. Ferreira^b, Cynthia Murakami^c, Maria Claudia M. Young^c, Guilherme M. Antar^b, Fernanda F. Camilo^d, Patricia Sartorelli^d and João Henrique G. Lago^{a,*}

^aCentro de Ciências Naturais e Humanas, Universidade Federal do ABC, 09210-580 Santo André – SP, Brasil

^bInstituto de Biociências, Universidade de São Paulo, 05508-090 São Paulo – SP, Brasil

^cInstituto de Botânica, 04301-902 São Paulo – SP, Brasil

^dInstituto de Ciências Ambientais, Químicas e Farmacêuticas, Universidade Federal de São Paulo, 09972-270 Diadema – SP, Brasil

*e-mail: joao.lago@ufabc.edu.br

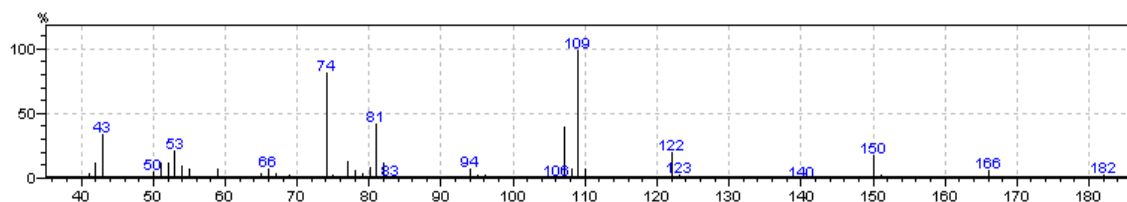


Figure 1S. LREIMS spectrum (70 eV) of compound 1

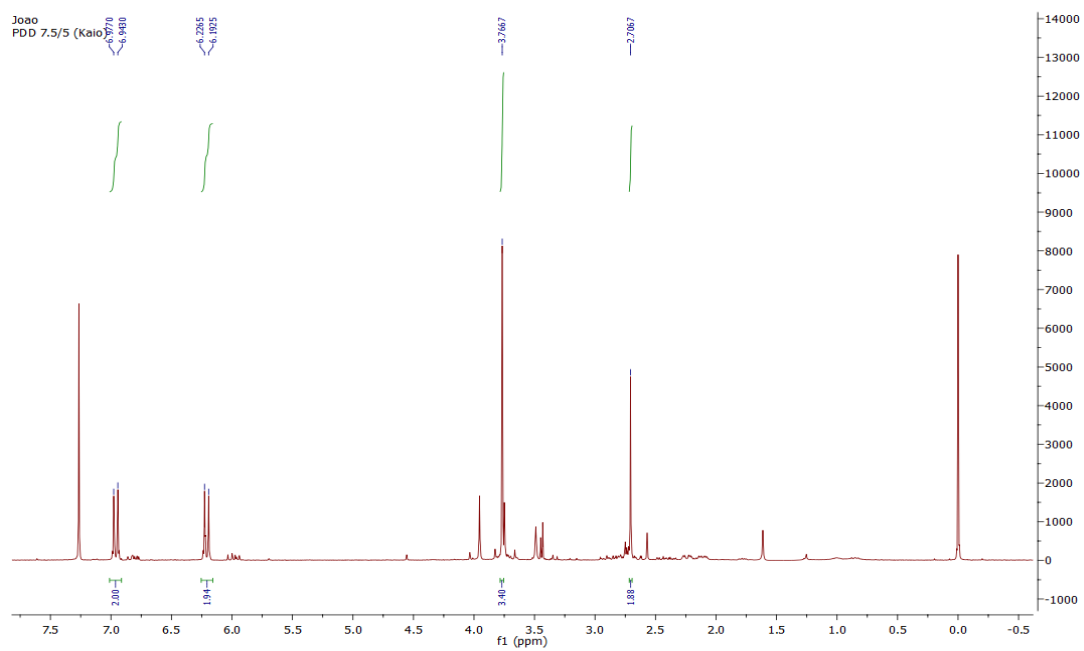


Figure 2S. ^1H NMR spectrum of compound **1** (δ , 300 MHz, CDCl_3)

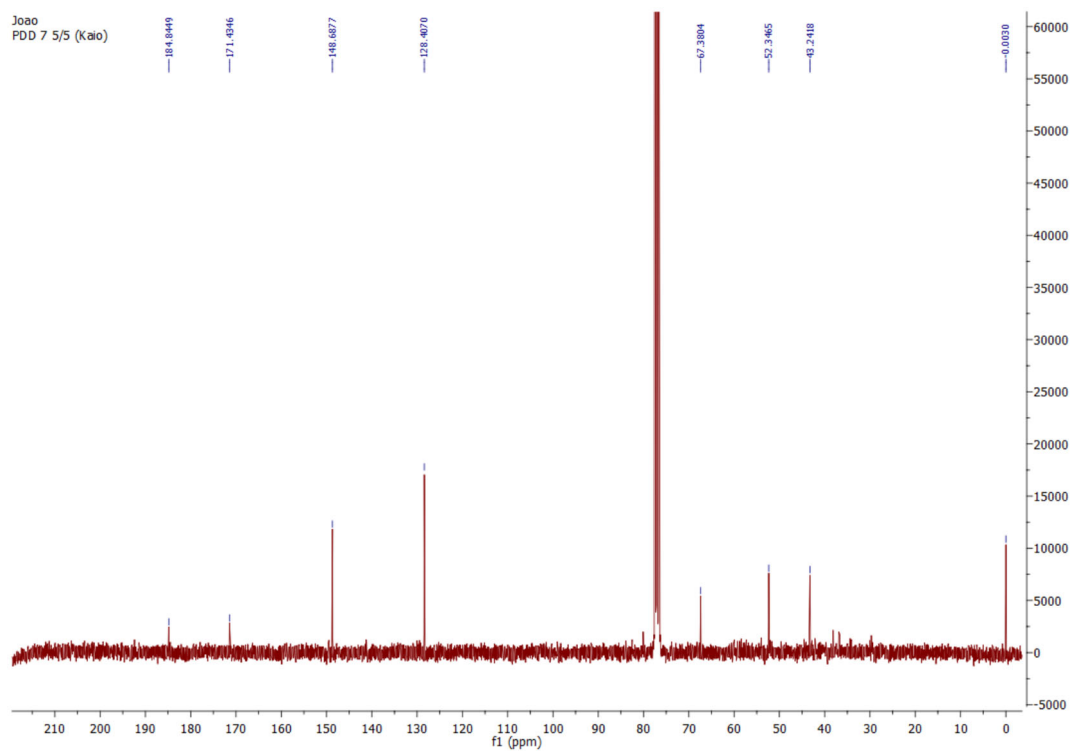


Figure 3S. ^{13}C NMR spectrum of compound **1** (δ , 75MHz, CDCl_3)

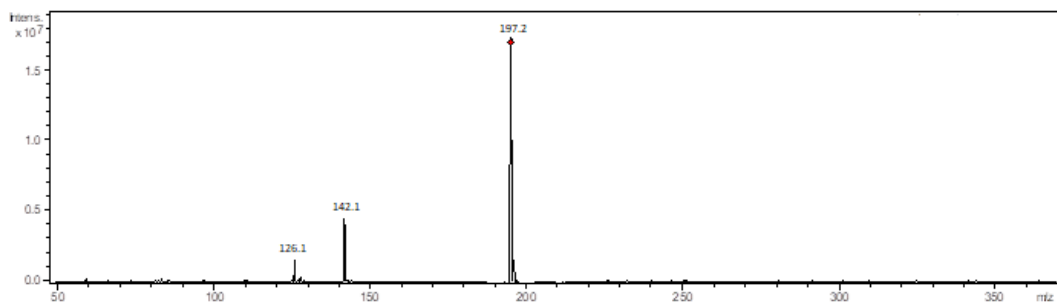


Figure 4S. LRESIMS spectrum (positive mode) of compound **2**

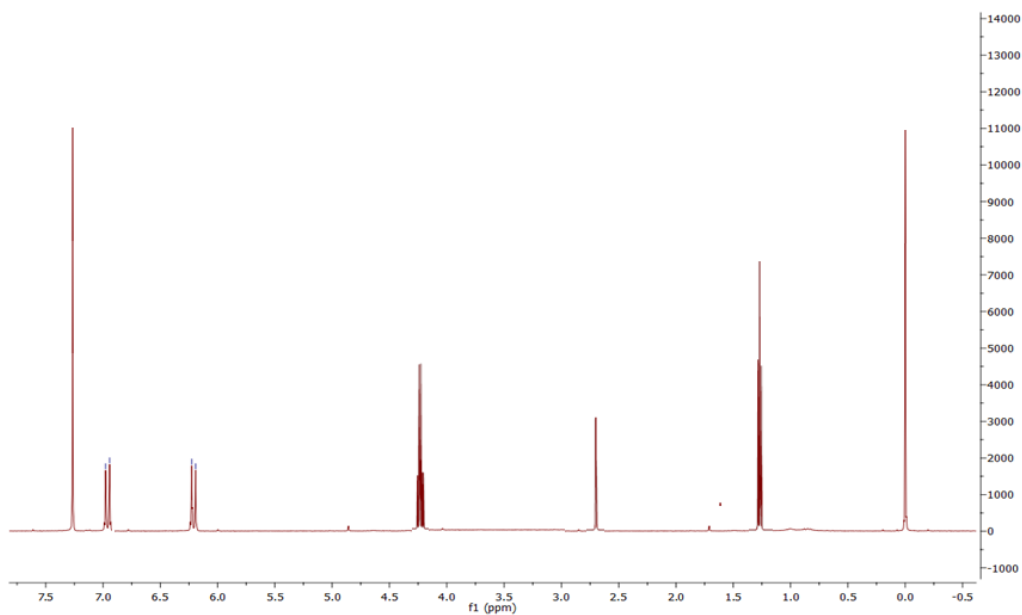


Figure 5S. ^1H NMR spectrum of compound **2** (δ , 300 MHz, CDCl_3)

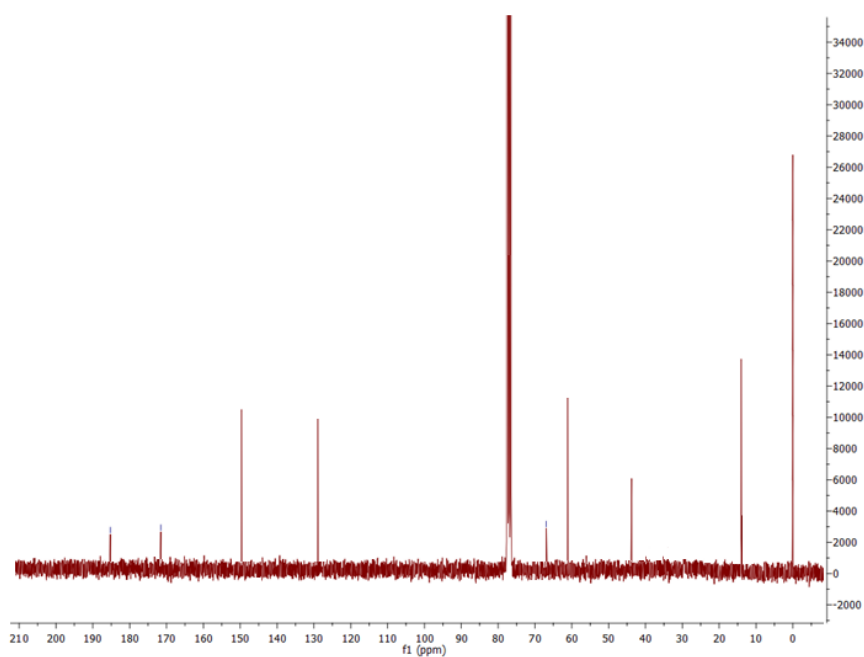


Figure 6S. ^{13}C NMR spectrum of compound **2** (δ , 75 MHz, CDCl_3)

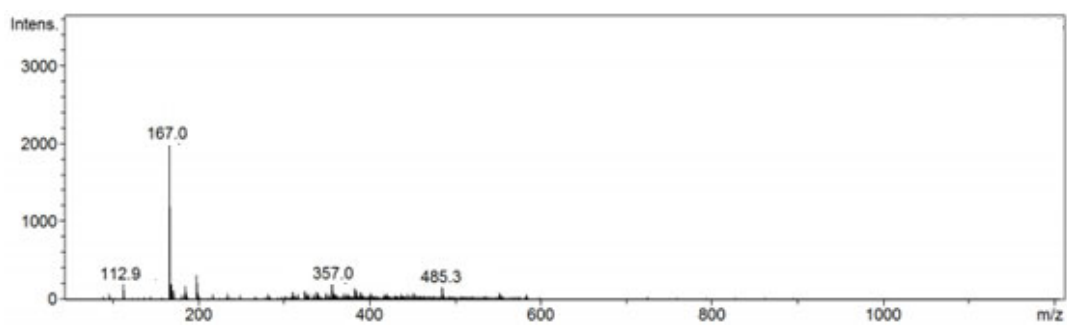


Figure 7S. HRESIMS (negative mode) spectrum of compound **3**

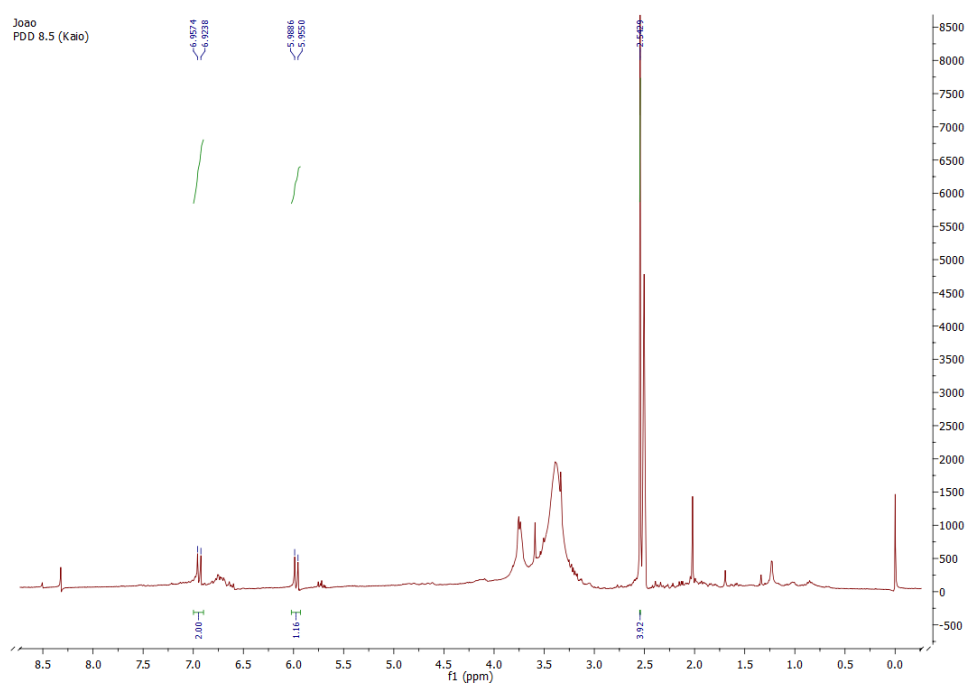


Figure 8S. ¹H NMR spectrum of compound **3** (δ , 300 MHz, DMSO-*d*₆)

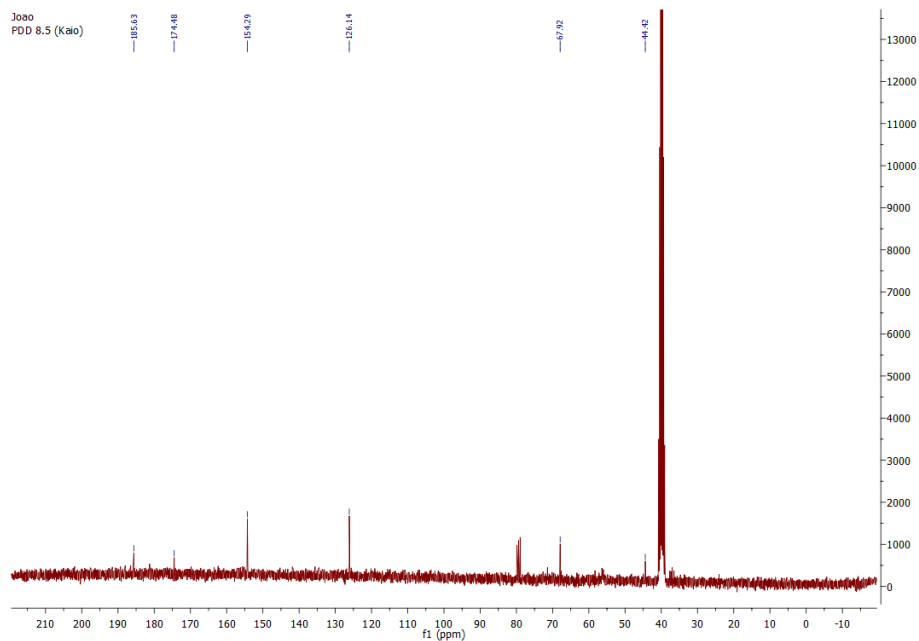


Figure 9S. ^{13}C NMR spectrum of compound 3 (δ , 75 MHz, $\text{DMSO-}d_6$)

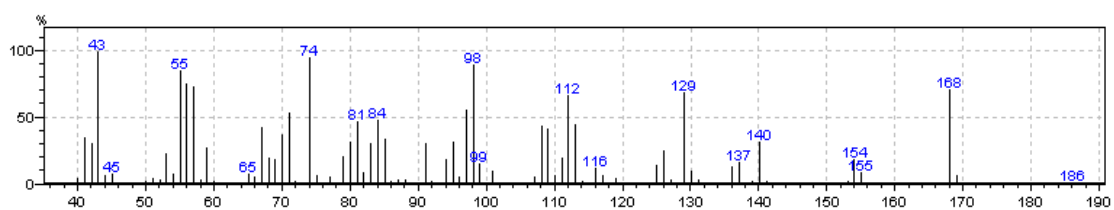


Figure 10S. LREIMS spectrum (70 eV) of compound 4

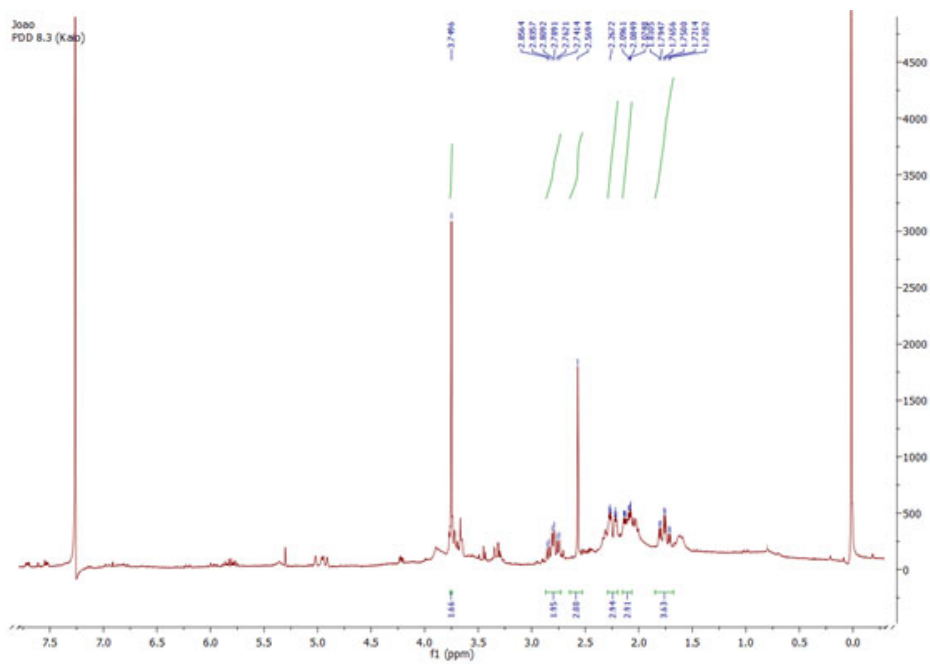


Figure 11S. ^1H NMR spectrum of compound 4 (δ , 300 MHz, CDCl_3)

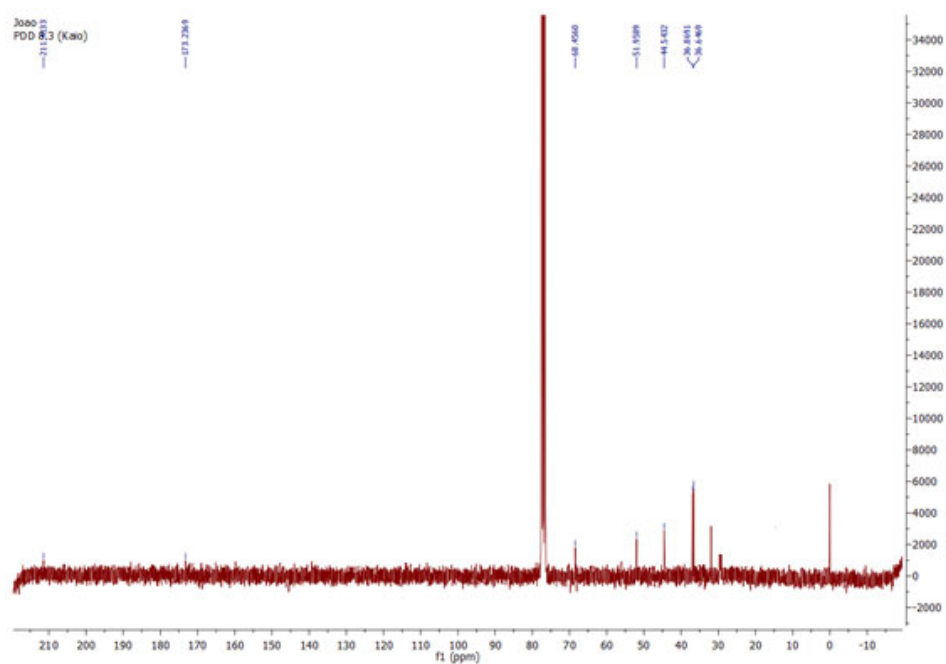


Figure 12S. ^{13}C NMR spectrum of compound **4** (δ , 75 MHz, CDCl_3)

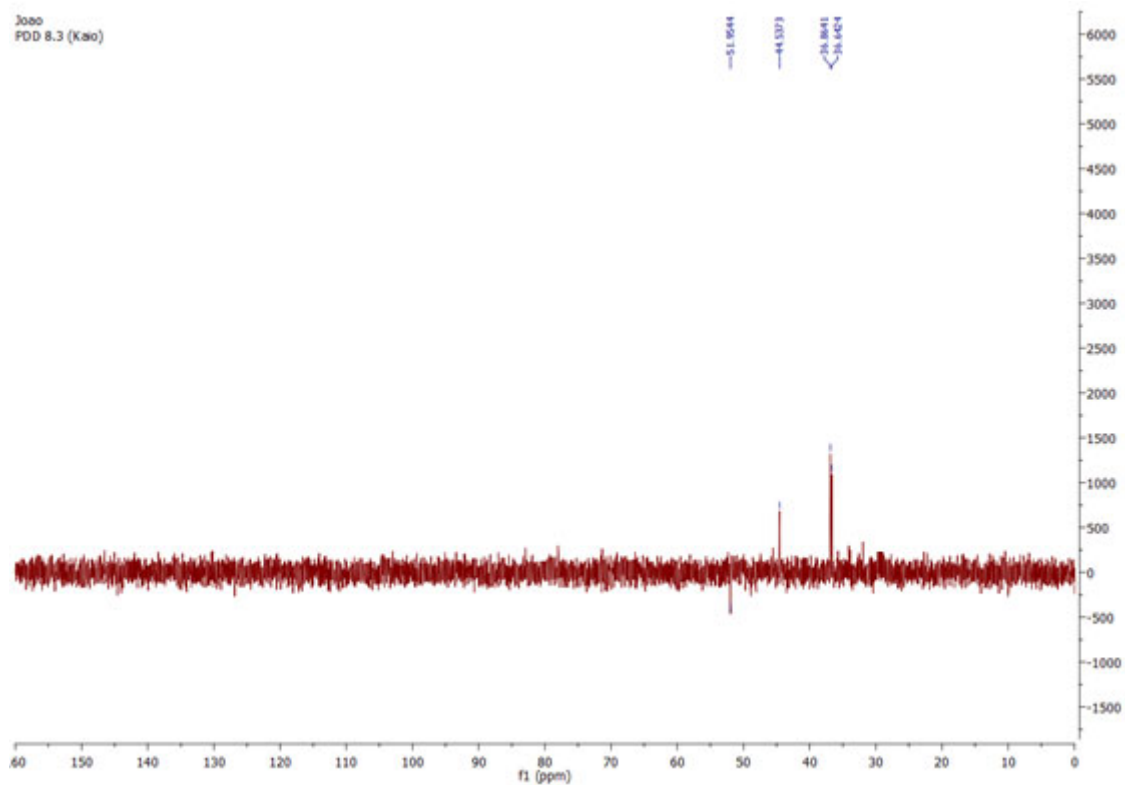


Figure 13S. DEPT 135° NMR spectrum of compound **4** (δ , 75 MHz, CDCl_3)

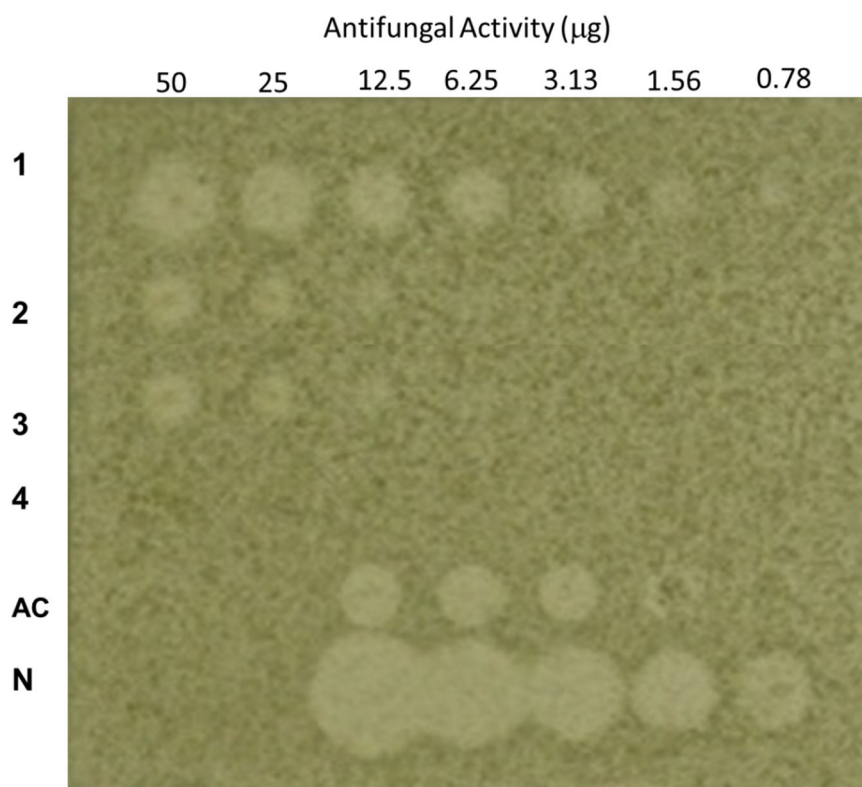


Figure 14S. Antifungal Activity (minimum quantity in μg necessary to inhibit the growing of fungi in thin-layer chromatography plates) of compounds **1 - 4** against *Cladosporium cladosporioides*. AC – cinnamic acid; N – nystatin

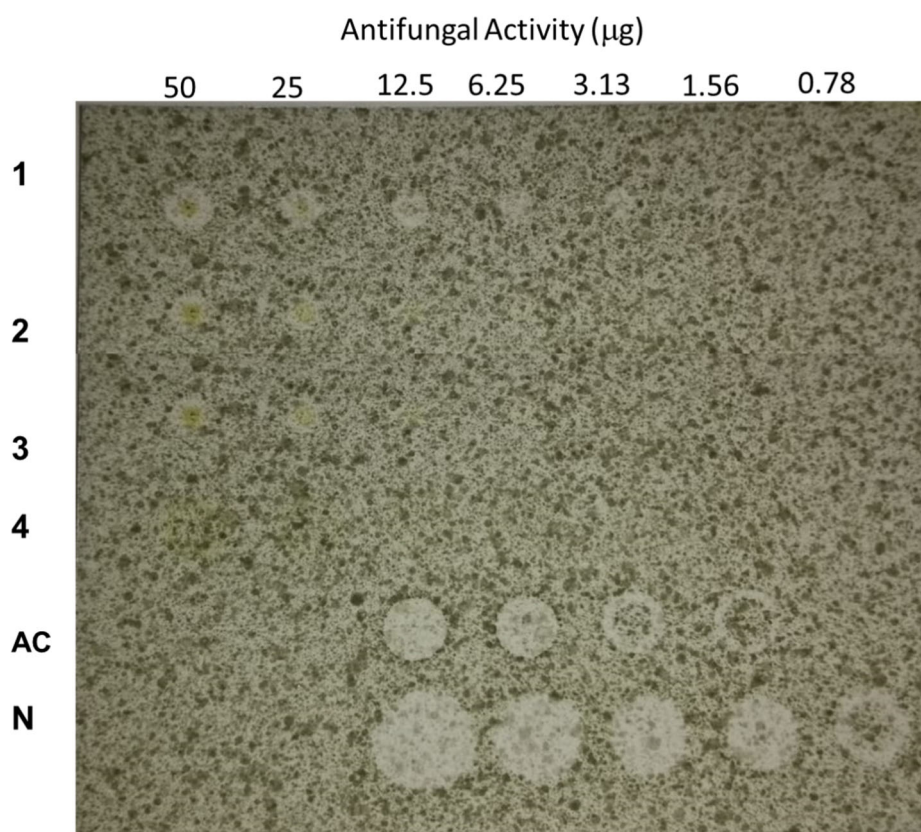


Figura 15S. Antifungal Activity (minimum quantity in μg necessary to inhibit the growing of fungi in thin-layer chromatography plates) of compounds **1 - 4** against *Cladosporium sphaerospermum*. AC – cinnamic acid; N – nystatin