Supporting Information *Rec. Nat. Prod.* 7:3 (2013) 242-244 Secondary metabolites of *Centaurea cadmea* Boiss.

Kaveh Alizadeh Astari¹, Sura Baykan Erel¹, Erdal Bedir² and Canan Karaalp^{1*}

¹Department of Pharmaceutical Botany, Faculty of Pharmacy, Ege University, 35100 Bornova-Izmir, Türkiye

²Department of Bioengineering, Faculty of Engineering, Ege University, 35100 Bornova-Izmir, Türkiye

Table of contents

S 1: ESI mass spectrum of compound 1 (chlorogenic acid)
S 2: ¹ H NMR spectrum (D_2O , 400 MHz) of compound 1 (chlorogenic acid)
S 3: ¹³ C NMR spectrum (D ₂ O, 100 MHz) of compound 1 (chlorogenic acid)5
S 4: ESI mass spectrum (CD ₃ OD, 400 MHz) of compound 2 (scutellarin)
S 5: ¹ H NMR spectrum (CD ₃ OD, 400 MHz) of compound 2 (scutellarin)
S 6: ¹³ C NMR spectrum (DMSO, 100 MHz) of compound 2 (scutellarin)
S 7: ESI mass spectrum of compound 3 (syringin)9
S 8: ¹ H-NMR spectrum (CD ₃ OD, 400 MHz) of compound 3 (syringin)10
S 9: Expansion of the ¹ H-NMR spectrum (CD ₃ OD, 400 MHz) of compound 3
(syringin)
S 10: ESI mass spectrum of compound 4 (roseoside)
S 11: ¹ H NMR spectrum (CD ₃ OD, 400 MHz) of compound 4 (roseoside)13
S 12: ¹³ C NMR spectrum (CD ₃ OD, 100 MHz) of compound 4 (roseoside)14
S 13: Expansion of the 13 C NMR spectrum of (CD ₃ OD, 100 MHz) compound 4
(roseoside)15
S 14: COSY spectrum of compound 4 (roseoside)16

S 15: HMBC spectrum of compound 4 (roseoside)	
S 16: HMQC spectrum of compound 4 (roseoside)	
Picture 1: TLC profile of compound 3 (syringin) (silica g	el plate,
CHCl ₃ /MeOH/H ₂ O, 61:32:7)	18
Picture 2: TLC profile of compound 5 (β -sitosterol-3- <i>O</i> - β -D-glucopy	ranoside)
(silica gel plate, CH ₂ Cl ₂ /MeOH, 9:1)	18



S 1: ESI mass spectrum of compound 1 (chlorogenic acid)



S 2: ¹H NMR spectrum (D₂O, 400 MHz) of compound 1 (chlorogenic acid)



S 3: ¹³C NMR spectrum (D₂O, 100 MHz) of compound 1 (chlorogenic acid)



S 4: ESI mass spectrum (CD₃OD, 400 MHz) of compound 2 (scutellarin).



S 5: ¹H NMR spectrum (CD₃OD, 400 MHz) of compound 2 (scutellarin)



S 6: ¹³C NMR spectrum (DMSO, 100 MHz) of compound 2 (scutellarin)



S 7: ESI mass spectrum of compound 3 (syringin)



S 8: ¹H-NMR spectrum (CD₃OD, 400 MHz) of compound 3 (syringin)



S 9: Expansion of the ¹H-NMR spectrum (CD₃OD, 400 MHz) of compound 3 (syringin)



S 10: ESI mass spectrum of compound 4 (roseoside)



S 11: ¹H NMR spectrum (CD₃OD, 400 MHz) of compound 4 (roseoside)



S 12: ¹³C NMR spectrum (CD₃OD, 100 MHz) of compound 4 (roseoside)



S 13: Expansion of the ¹³C NMR spectrum of (CD₃OD, 100 MHz) compound 4 (roseoside)



S 14: COSY spectrum of compound 4 (roseoside)



S 15: HMBC spectrum of compound 4 (roseoside)



S 16: HMQC spectrum of compound 4 (roseoside)



Picture 1. TLC profile of compound 3 (syringin) (silica gel plate, CHCl₃/MeOH/H₂O, 61:32:7)



Picture 2. TIC profile of compound 5 (β -sitosterol-3-*O*- β -D-glucopyranoside) (silica gel plate, CH₂Cl₂/MeOH, 9:1).