
Supplementary Material

An *In Vivo* Assessment of the Effect of Hexane Extract from *Endlicheria paniculata* Branches and Its Main Compound, Methyldehydrodieugenol B, on Murine Sponge-Induced Inflammation

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Table S1. Identification of Compounds **1–6** in HEB of *E. paniculata* by HPLC-ESI-MS.

R _t / min	m/z [M + Na] ⁺	Error (ppm)	Molecular formula	Identified compound
15.1	365.1369	2.7	C ₂₀ H ₂₂ O ₅	1-[(7 <i>R</i>)-hydroxy-8-propenyl]-3-[3'-methoxy-1'-(8'-propenyl)phenoxy]-4-hydroxy-5-methoxybenzene (3)
16.9	363.1213	2.7	C ₂₀ H ₂₀ O ₅	1-(7-oxo-8-propenyl)-3-[3'-methoxy-1'-(8'-propenyl)phenoxy]-4-hydroxy-5-methoxybenzene (4)
18.1	379.1533	4.5	C ₂₁ H ₂₄ O ₅	1-[(7 <i>R</i>)-hydroxy-8-propenyl]-3-[3'-methoxy-1'-(8'-propenyl)phenoxy]-4,5-methoxybenzene (5)
21.3	377.1372	3.4	C ₂₁ H ₂₂ O ₅	1-(7-oxo-8-propenyl)-3-[3'-methoxy-1'-(8'-propenyl)phenoxy]-4,5-dimethoxybenzene (6)
24.1	349.1424	4.0	C ₂₀ H ₂₂ O ₄	Dehydrodieugenol B (2)
27.0	363.1585	4.0	C ₂₁ H ₂₄ O ₄	Methyldehydrodieugenol B (1)

Table S2. ¹H NMR (400 MHz), ¹³C (100 MHz), COSY and HSQC (in CDCl₃) data of **1**.

Position	¹ H (mult ¹ , J in Hz)	¹³ C	COSY	HSQC
1	-	135.7	-	-
2	6.28 (d, 2.0)	107.5	-	C-2
3	-	144.3	-	-
4	-	138.2	-	-
5	-	150.8	-	-
6	6.49 (d, 2.0)	111.5	-	C-6
7	3.37 (d, 6.4)	40.2	H-8	C-7
8	5.90 (m)	137.6	H-7, H-9	C-8
9	5.06 (m)	116.1	H-8	C-9
10	3.84 (s)	56.3	-	C-10
11	3.88 (s)	61.2	-	C-11
1'	-	136.2	-	-
2'	6.81 (d, 2.1)	113.2	-	C-2'
3'	-	153.7	-	-
4'	-	150.8	-	-
5'	6.83 (d, 7.1)	119.6	H-6'	C-5'
6'	6.70 (dd, 7.8 and 2.0)	120.9	H-5'	C-6'
7'	3.24 (d, 6.1)	40.3	H-8'	C-7'
8'	5.90 (m)	137.3	H-7', H-9'	C-8'
9'	5.06 (m)	116.1	H-8'	C-9'
10'	3.88 (s)	56.2	-	C-10'

Note: ¹multiplicity of signals: s = singlet; d = doublet; dd = double-doublet; m = multiplet.**Table S3.** Distribution, description and number of mice per analysis.

Groups	Descriptions	Number of mice per analysis	
		Biochemical analysis	Histological analysis
CO	The animals received intraimplant treatment, 10 µL of 0.5% DMSO (vehicle), for 9 consecutive days	n = 10	n = 6
0.1 µg	Animals treated with 10 ng of HEB, diluted in 10 µL 0.5% DMSO (intraimplant injections for 9 consecutive days)	n = 10	n = 6
1 µg	Animals treated with 100 ng of HEB, diluted in 10 µL 0.5% DMSO (intraimplant injections for 9 consecutive days)	n = 10	n = 6

		Animals treated with 1000 ng of HEB, diluted in 10 µL 0.5% DMSO (intraimplant injections for 9 consecutive days)	n = 10	n = 6	Total = 64
Groups	Descriptions	Biochemical analysis	Histological analysis		
CO	The animals received intra-implant treatment, 10 µL 0.5% DMSO (vehicle), for 9 consecutive days	n = 10	n = 6		
0.1 µg	Animals treated with 10 ng of methyldehydroeugenol B, diluted in 10 µL 0.5% DMSO (intraimplant injections for 9 consecutive days)	n = 10	n = 6		
1 µg	Animals treated with 100 ng of methyldehydroeugenol B, diluted in 10 µL 0.5% DMSO (intraimplant injections for 9 consecutive days)	n = 10	n = 6		
10 µg	Animals treated with 1000 ng of methyldehydroeuge- nol B, diluted in 10 µL 0.5% DMSO (intraimplant injec- tions for 9 consecutive days)	n = 10	n = 6		

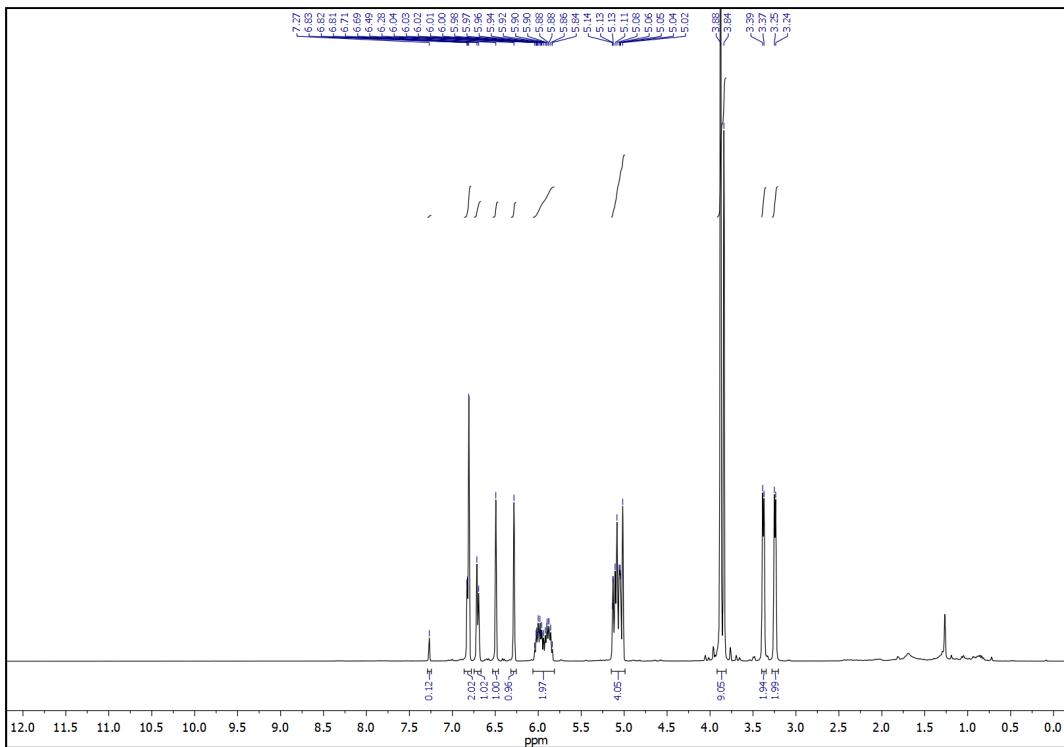


Figure S1. ^1H NMR spectrum (400 MHz, CDCl_3) of **1**.

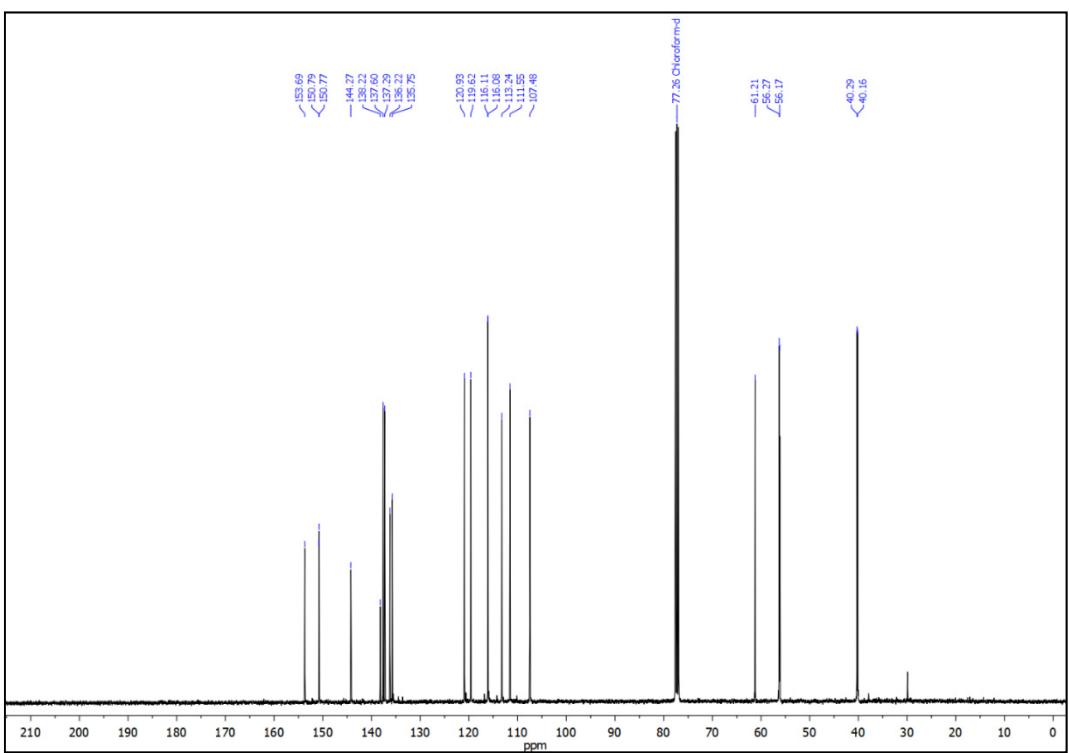


Figure S2. ^{13}C NMR spectrum (100 MHz, CDCl_3) of **1**.

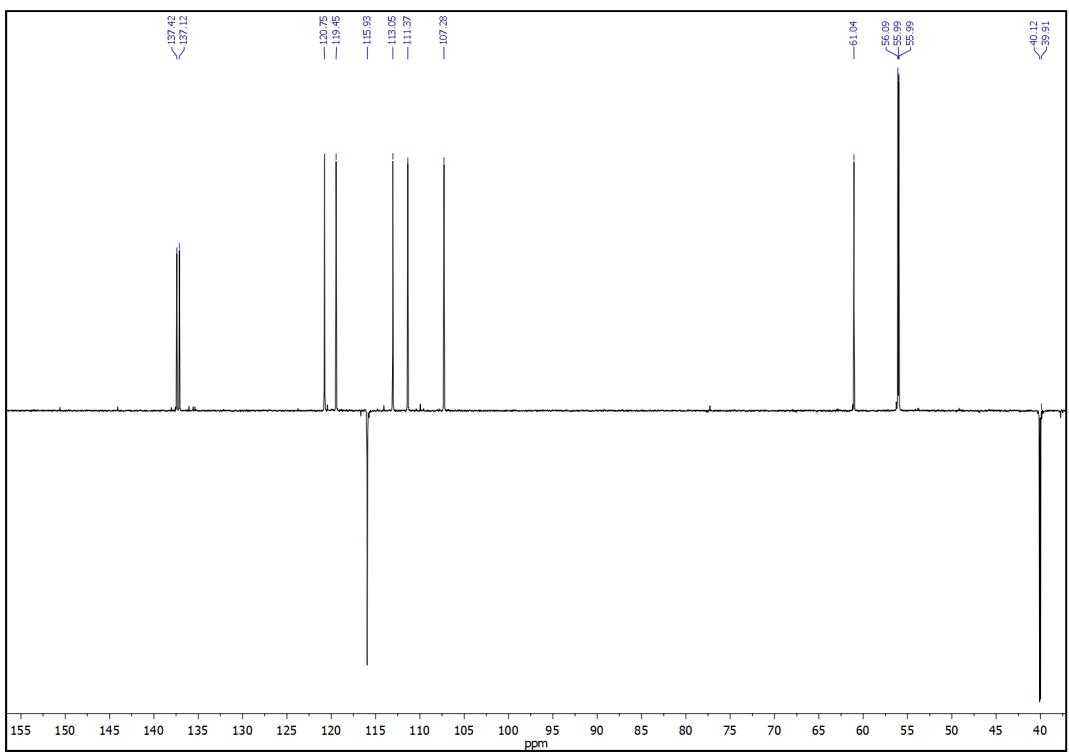


Figure S3. DEPT135 NMR spectrum from enlarged 40 to 155 ppm (δ , CDCl_3 , 100 MHz) of **1**.

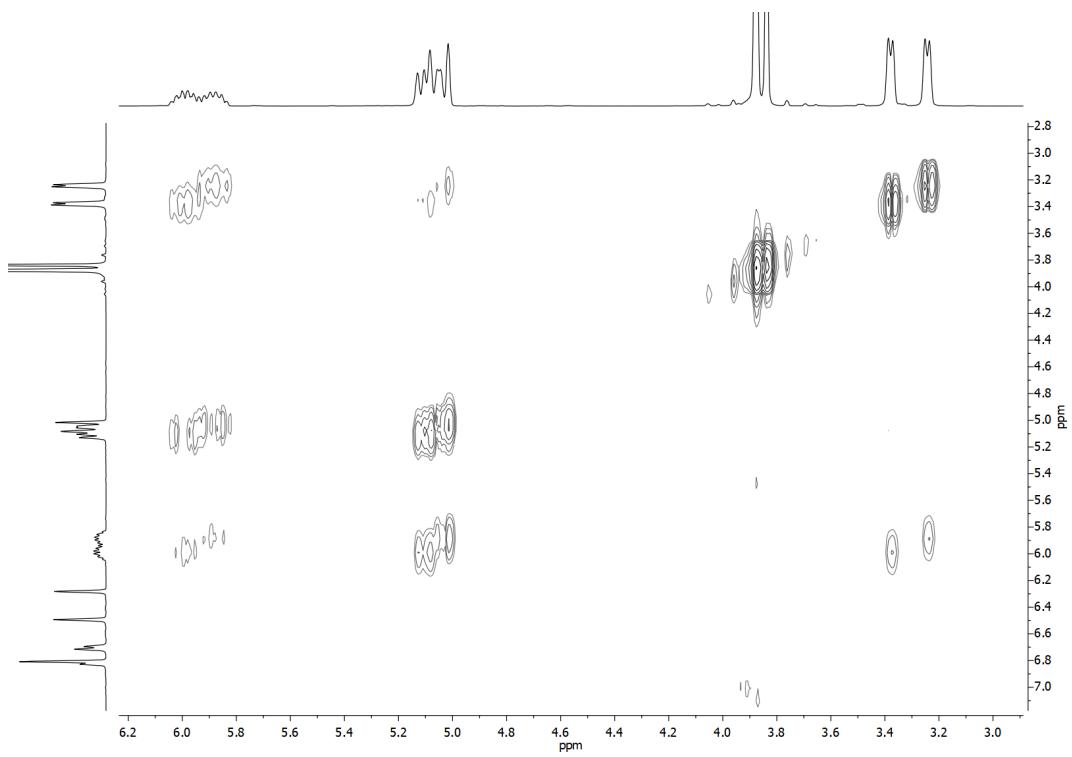


Figure S4. COSY contour map (δ , CDCl_3 , 100 MHz) of **1**.

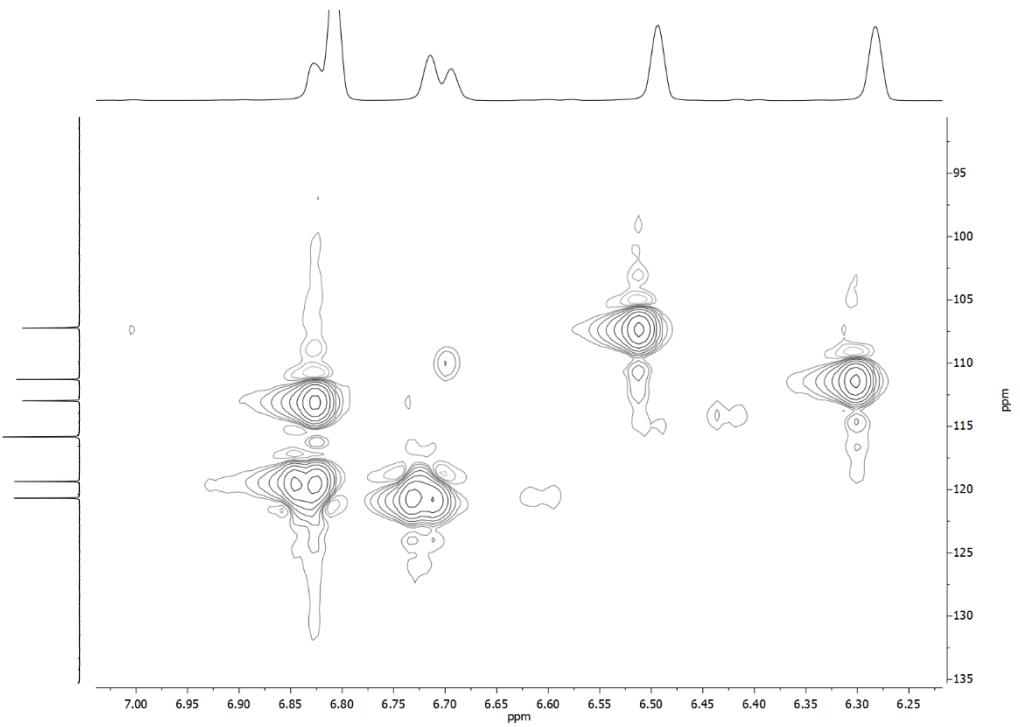


Figure S5. HSQC contour map (δ , CDCl_3 , 400 and 100 MHz) of **1**.

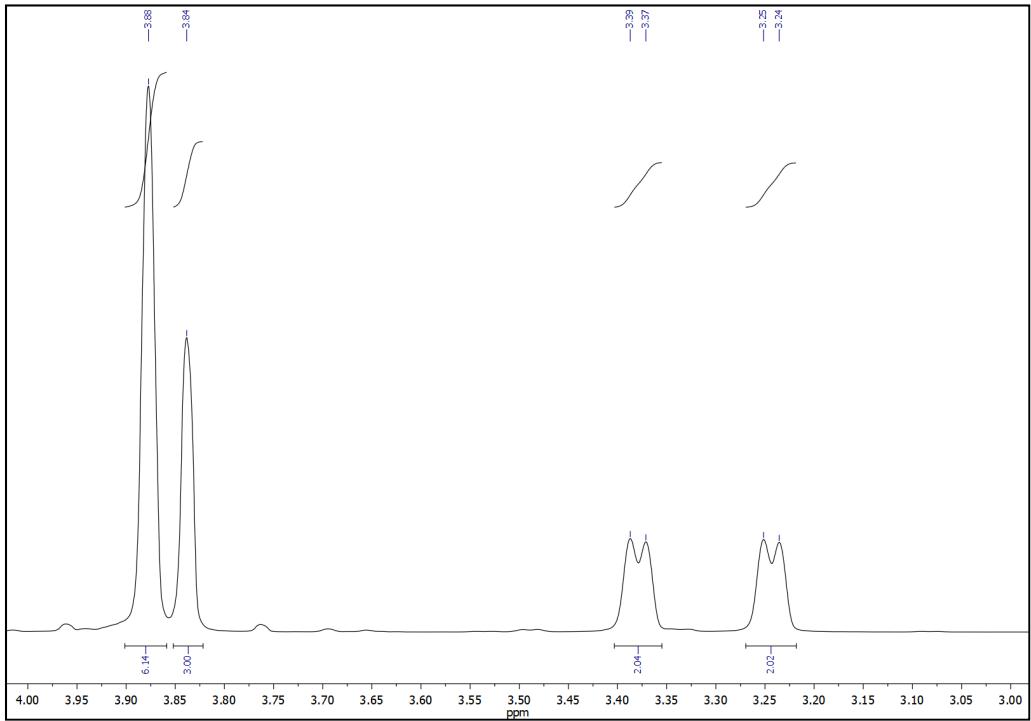


Figure S6. ^1H NMR spectrum (region from 3 to 4 ppm) (400 MHz, CDCl_3) of **1**.

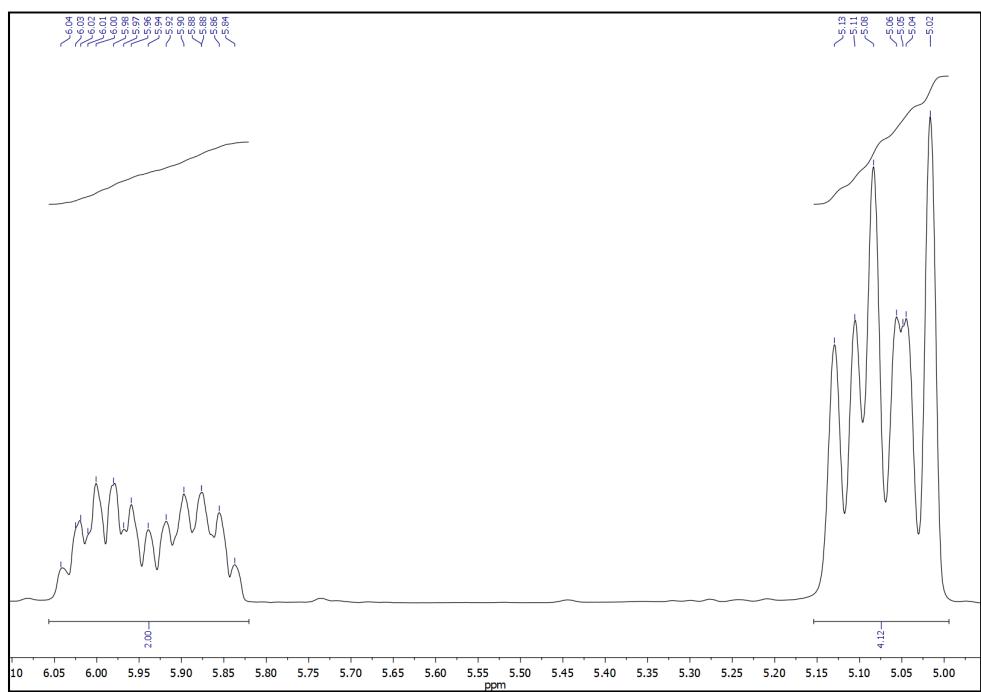


Figure S7. ^1H NMR spectrum (region from 5 to 6 ppm) (400 MHz, CDCl_3) of **1**.

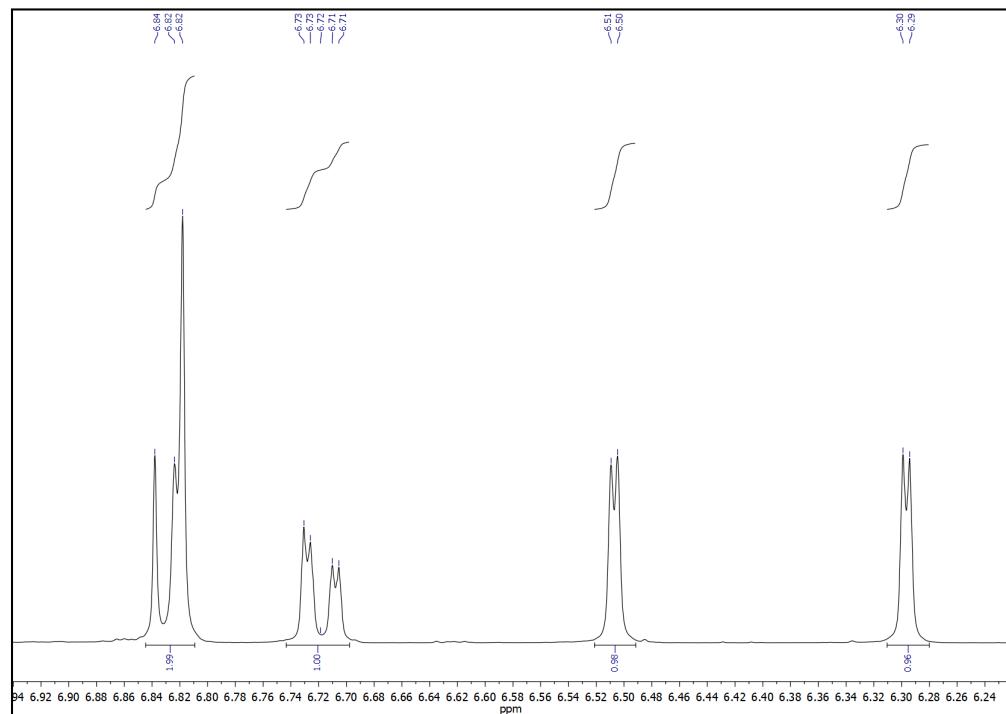


Figure S8. ^1H NMR spectrum (region from 6 to 7 ppm) (400 MHz, CDCl_3) of **1**.

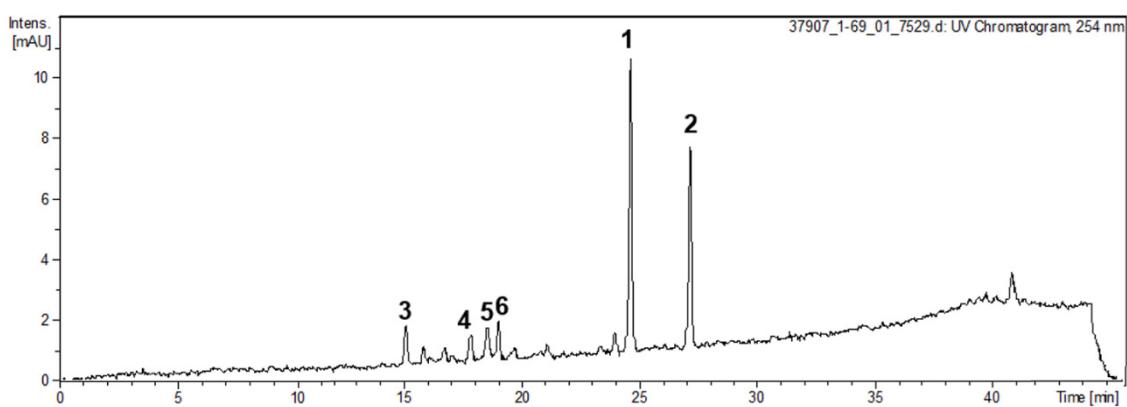


Figure S9. HPLC analysis of hexane extract from branches (HEB) of *E. paniculata*.

HPLC-ESI-HRMS conditions: mobile phase: H_2O (A) and MeOH HPLC grade (B); gradient: 50% B (0 min), 100% B (0–35 min), 100% B (35–40 min) 50% B (40–41 min) and 50% B (41–45 min). ionization parameters: 2 Bar nebulizer pressure, 8 L/min injection flow, secant gas at a temperature of 250 °C and 4.5 kV energy in the capillary.

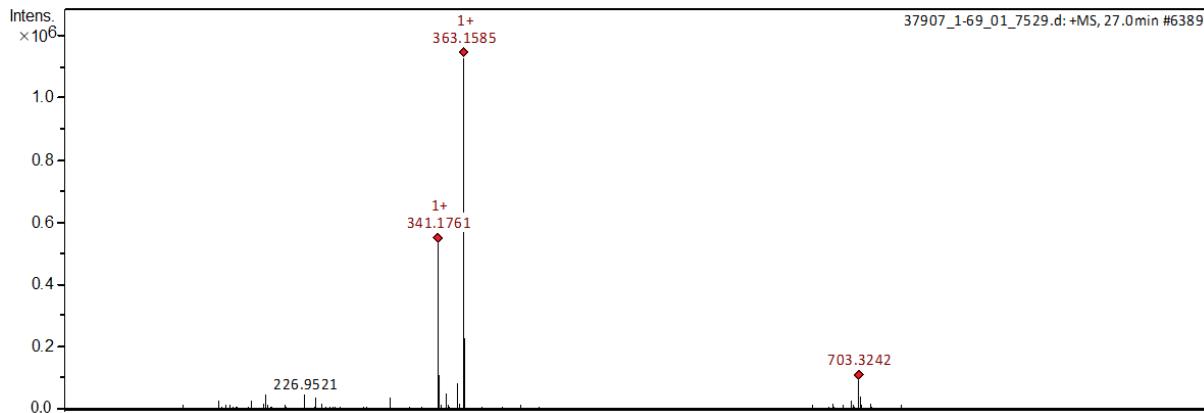


Figure S10. HPLC-ESI-MS spectrum (positive mode) of **1** at 27.0 min.

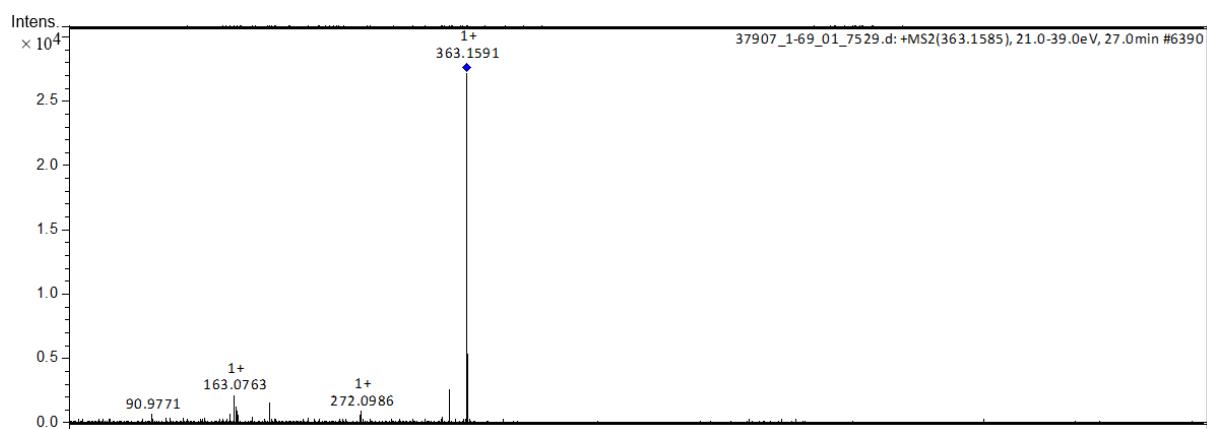


Figure S11. HPLC-ESI-MS/MS spectrum (positive mode) of **1** at 27.0 min.

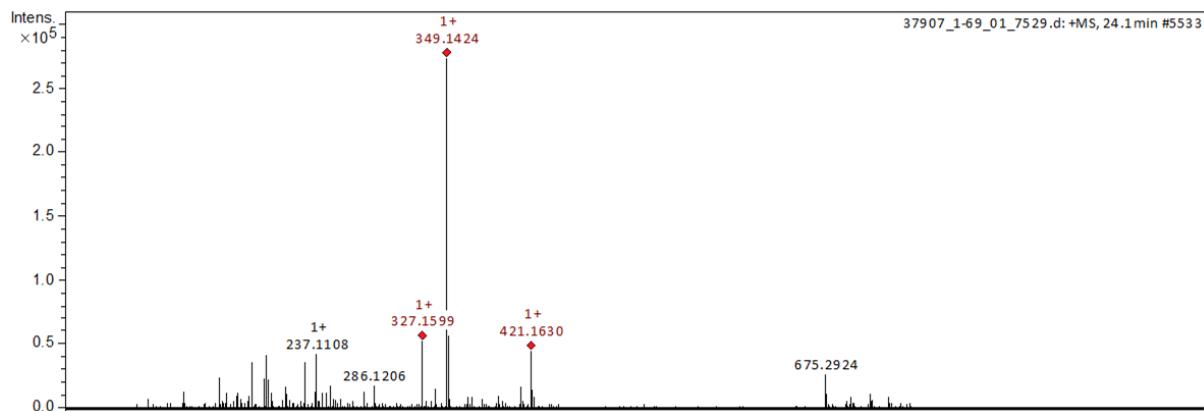


Figure S12. HPLC-ESI-MS spectrum (positive mode) of **2** at 24.1 min.

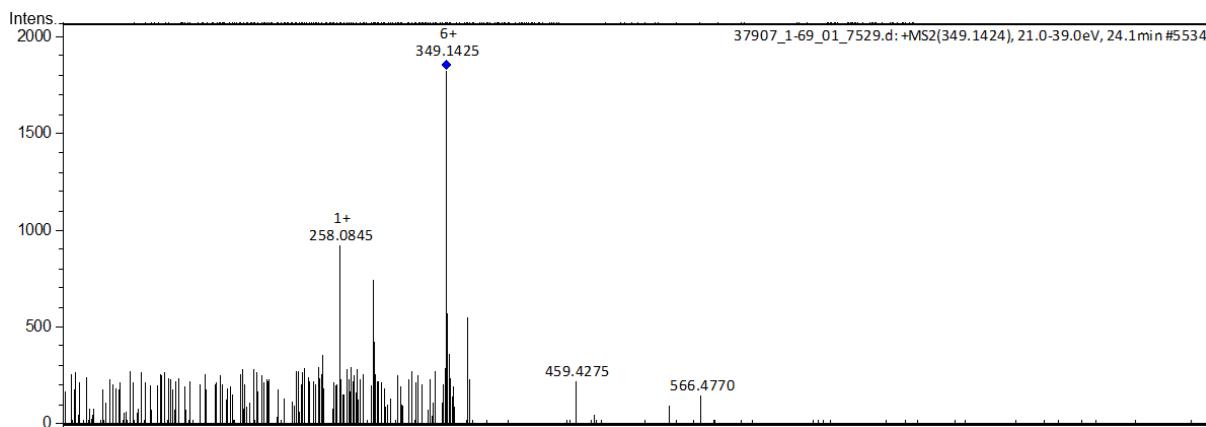


Figure S13. HPLC–ESI–MS/MS spectrum (positive mode) of **2** at 24.1 min.

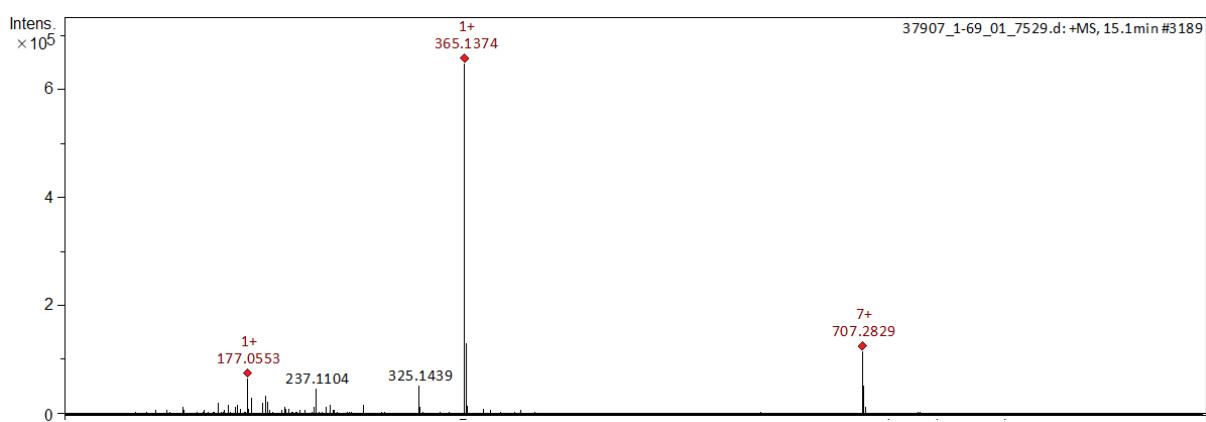


Figure S14. HPLC–ESI–MS spectrum (positive mode) of **3** at 15.1 min.

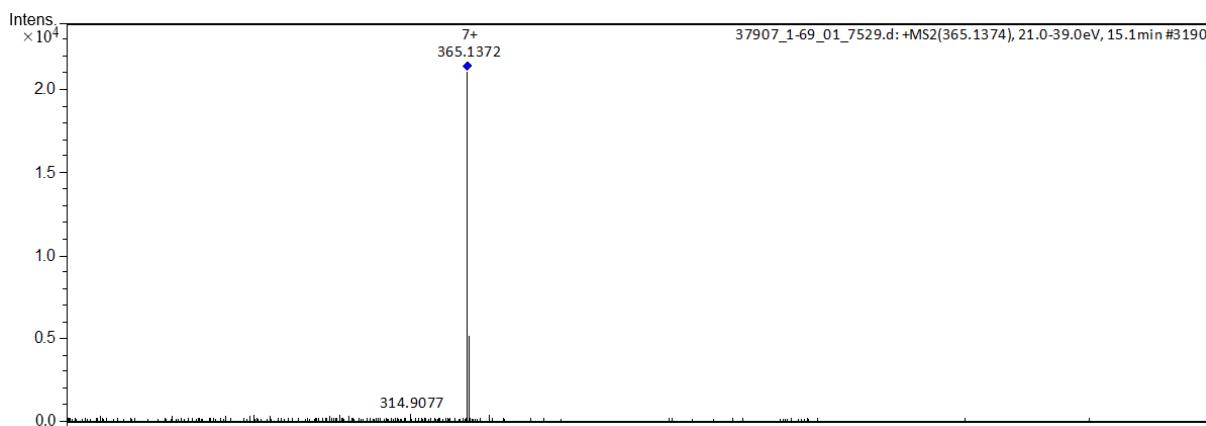


Figure S15. HPLC–ESI–MS/MS spectrum (positive mode) of **3** at 15.1 min.

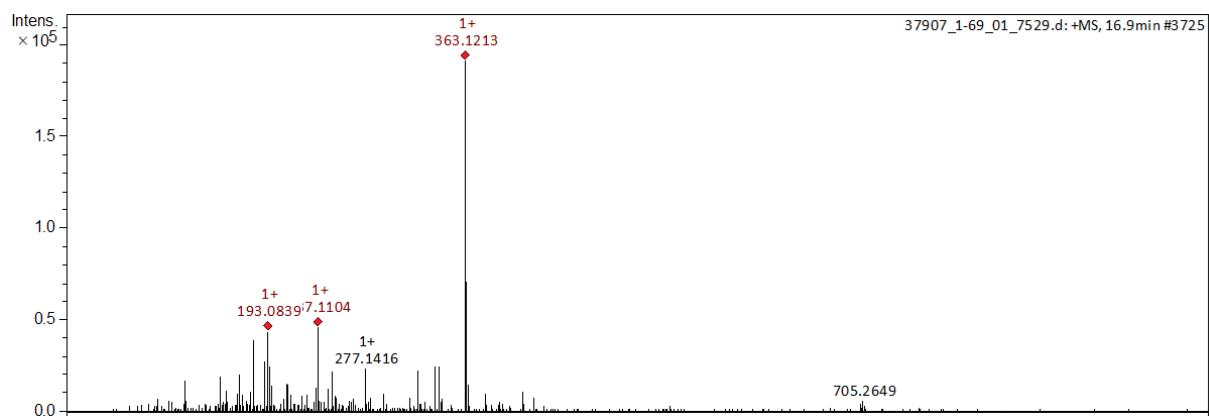


Figure S16. HPLC–ESI–MS spectrum (positive mode) of **4** at 16.9 min.

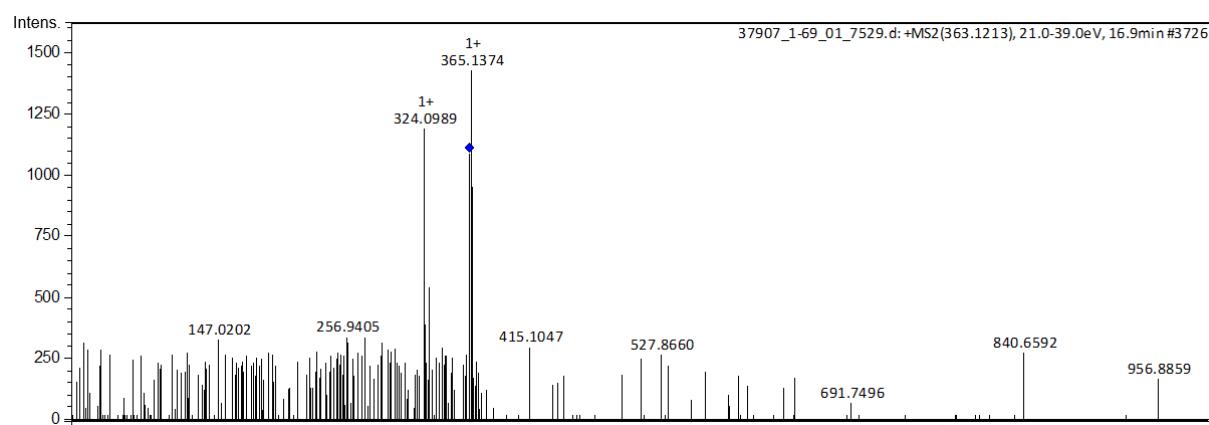


Figure S17. HPLC–ESI–MS/MS spectrum (positive mode) of **4** at 16.9 min.

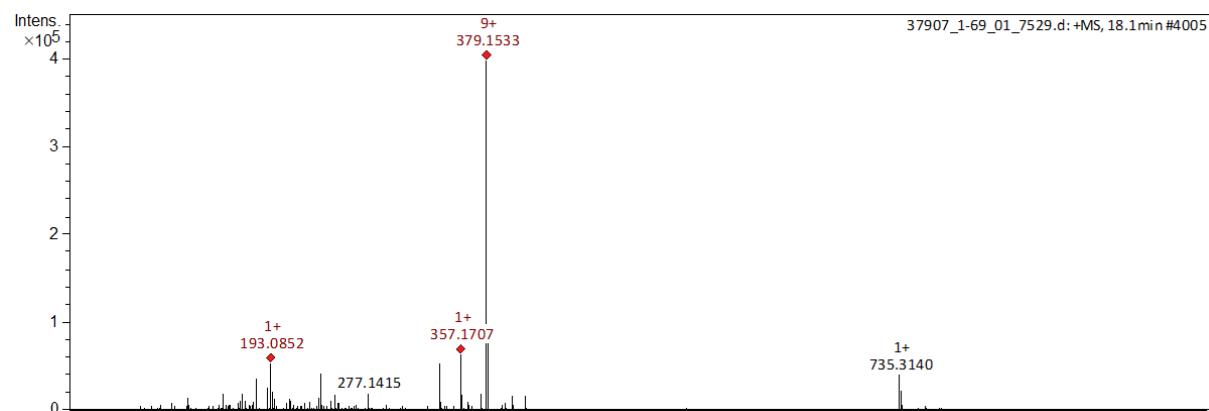


Figure S18. HPLC–ESI–MS spectrum (positive mode) of **5** at 18.1 min.

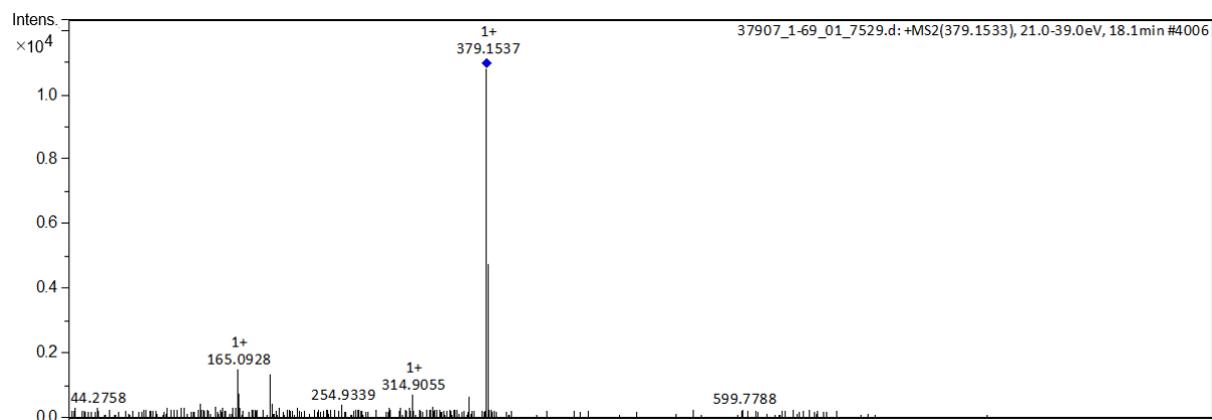


Figure S19. HPLC–ESI–MS/MS spectrum (positive mode) of **5** at 8.1 min.

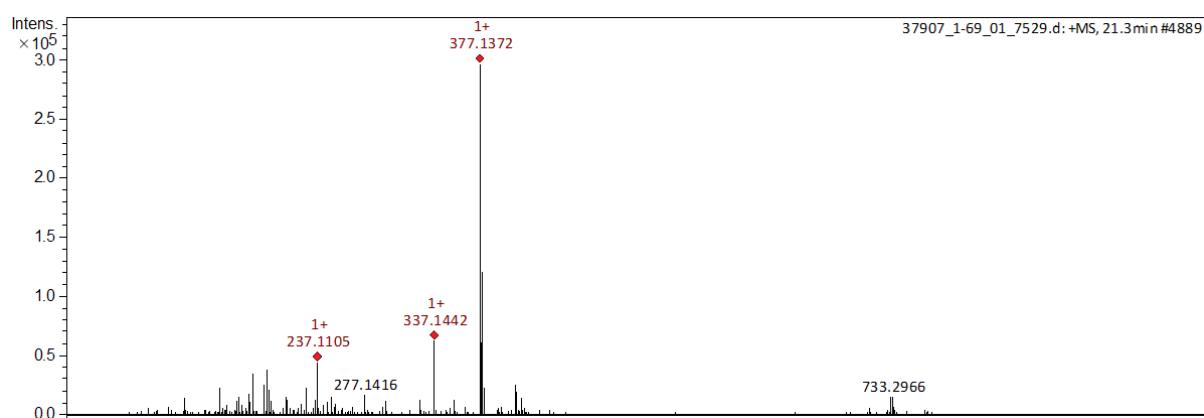


Figure S20. HPLC–ESI–MS spectrum (positive mode) of **6** at 21.3 min.

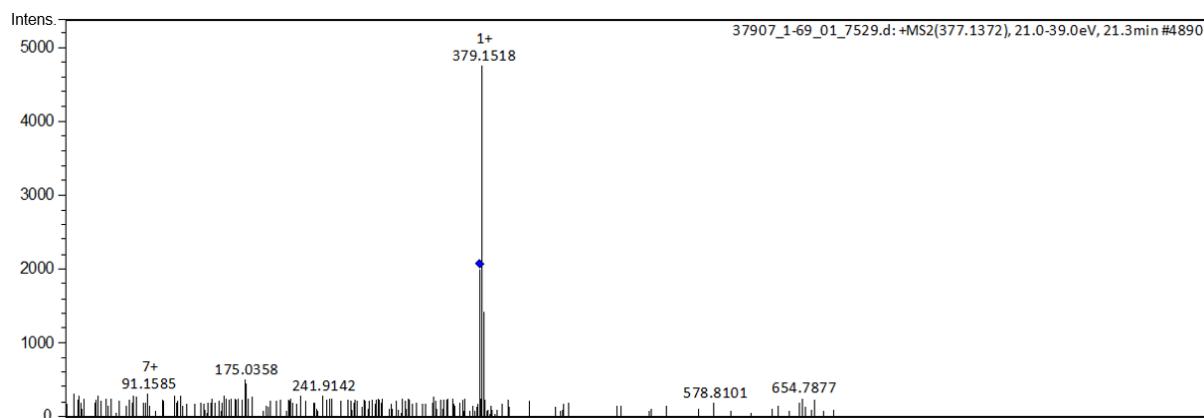


Figure S21. HPLC–ESI–MS/MS spectrum (positive mode) of **6** at 21.3 min.