

Supplementary Materials

Table S1: Calibration curves, concentration range, limit of detection (LOD), and limit of quantification (LOQ) for standards.

Compound	Retention time (min.)	Calibration curve	R ²	Linear range (mg/mL)	LOD (mg/mL)	LOQ (mg/mL)
Caffeic acid	17.5	$y = 49397035.98x + 4835.25$	0.9987	0.01 - 0.10	0.008	0.024
Ferulic acid	31.1	$y = 50589523.70x + 25423.55$	0.9998	0.01 - 0.40	0.009	0.028
Coumarin	44.1	$y = 12131245.04x + 83143.09$	0.9986	0.01 - 0.20	0.016	0.047
Rosmarinic acid	45.9	$y = 29357372.96x - 81691.18$	0.9989	0.01 - 0.30	0.018	0.055
Morin	51.2	$y = 15364684.92x - 65644.56$	0.9988	0.01 - 0.30	0.020	0.059
Herniarin	55.0	$y = 44968245.58x + 148823.98$	0.9977	0.01 - 0.25	0.021	0.065

y – peak area (AU), x – concentration of the compound (mg/mL)

Table S2: Intra- and interday precision for determination of phenolic compounds by HPLC-DAD.

Compound	Concentration (mg/mL)	Intraday RSD (%)	Interday RSD (%)
Rosmarinic acid	0.040	0.288	0.326
	0.080	0.221	0.340
	0.200	0.182	0.317
Herniarin	0.040	0.064	0.198
	0.080	0.143	0.195
	0.200	0.045	0.057

Table S3: Compounds identified in aqueous-ethanolic and aqueous extracts of lavender and lavandin.

Peak number	Compound	Retention time (min.)	Molecular formula	Molecular weight (g/mol)	λ_{\max} (nm) (A_{\max})	Ion fragments
1	Chlorogenic acid	13.2	C ₁₆ H ₁₈ O ₉	354.31	218 (1.15), 245 (0.81), 302 (1.10), 330 (1.44)	191, 179, 161
2	Caffeic acid	17.5	C ₉ H ₈ O ₄	180.16	218 (2.11), 243 (1.59), 298 (2.13), 324 (2.61)	179, 134
3	Vanillin	24.2	C ₈ H ₈ O ₃	152.15	206 (2.52), 230 (2.88), 278 (2.06), 308 (1.98)	151, 136, 123, 109
4	Ferulic acid glucoside	29.5	C ₁₆ H ₂₀ O ₉	355.10	293 (-), 318 (-)	193, 149, 134
5	Ferulic acid	31.1	C ₁₀ H ₁₀ O ₄	194.18	218 (1.76), 235 (1.59), 295 (1.83), 322 (2.40)	193, 178, 149, 134
6	Ellagic acid	31.9	C ₁₄ H ₆ O ₈	302.19	202 (1.06), 252 (3.72), 366 (0.84)	301, 257, 229, 185
7	Isoquercitrin	35.3	C ₂₁ H ₂₀ O ₁₂	464.40	207 (2.40), 257 (1.40), 358 (1.15)	300, 271, 255, 178
8	Coumarin	44.1	C ₉ H ₆ O ₂	146.14	212 (2.93), 274 (2.26), 310 (1.16)	147, 119, 91
9	Rosmarinic acid	45.9	C ₁₈ H ₁₆ O ₈	360.30	203 (1.26), 291 (0.46), 330 (0.62)	197, 179, 161, 135
10	Morin	51.2	C ₁₅ H ₁₀ O ₇	302.23	207 (2.31), 255 (1.17), 358 (0.91)	271, 163
11	Herniarin	55.0	C ₁₀ H ₈ O ₃	176.17	205 (2.48), 216 (2.22), 325 (2.58)	176, 148, 133

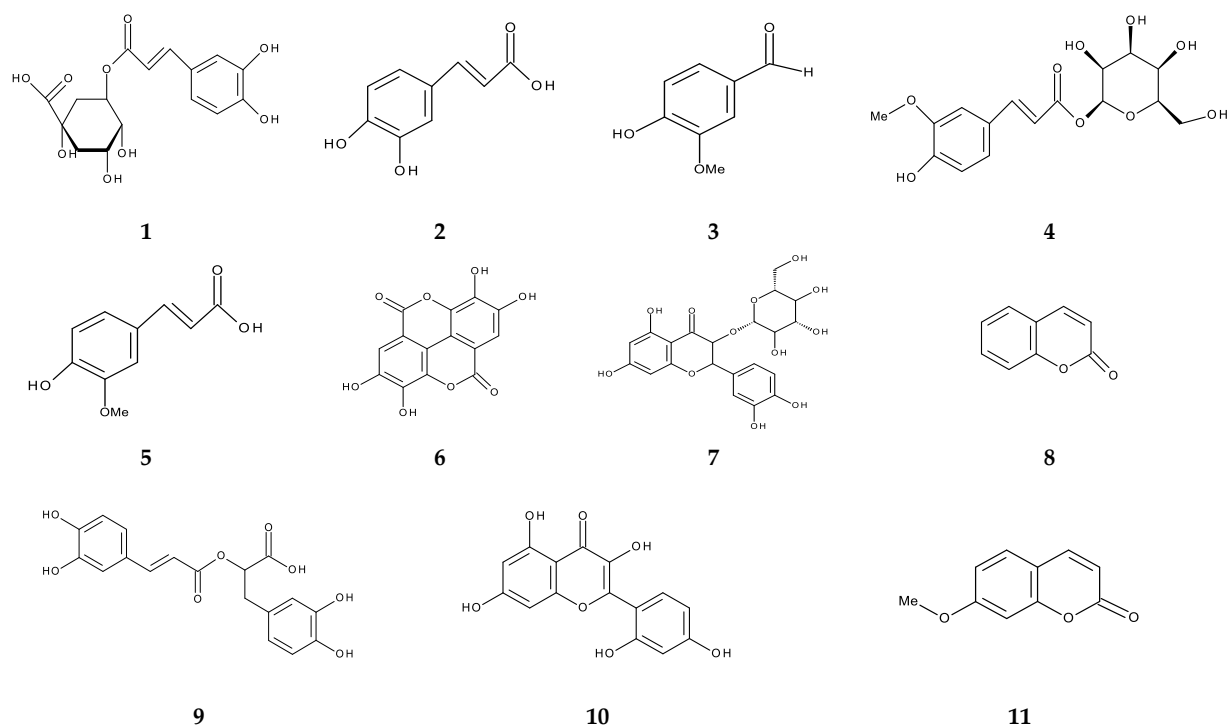


Figure S1: Chemical structures of the compounds of *Lavandula angustifolia* and *Lavandula x intermedia*: 1 - chlorogenic acid, 2 - caffeic acid, 3 – vanillin, 4 - ferulic acid glucoside, 5 - ferulic acid, 6 - ellagic acid, 7 – isoquercitrin, 8 – coumarin, 9 - rosmarinic acid, 10 – morin, 11 – herniarin

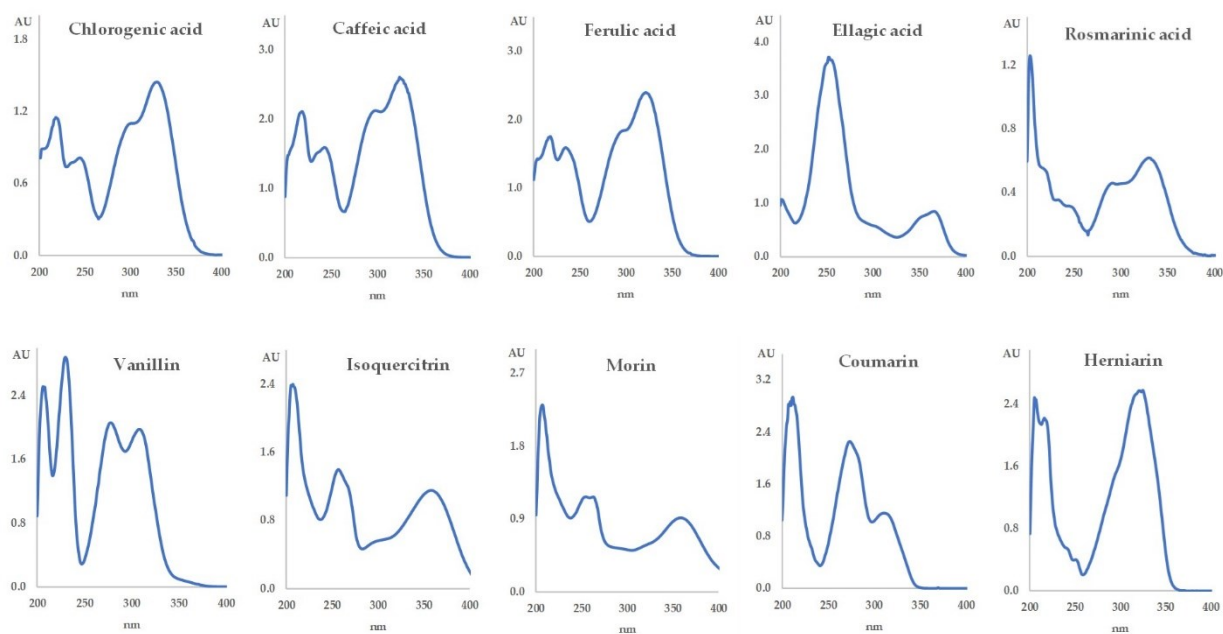


Figure S2: UV spectra of phenolic compounds and coumarins.

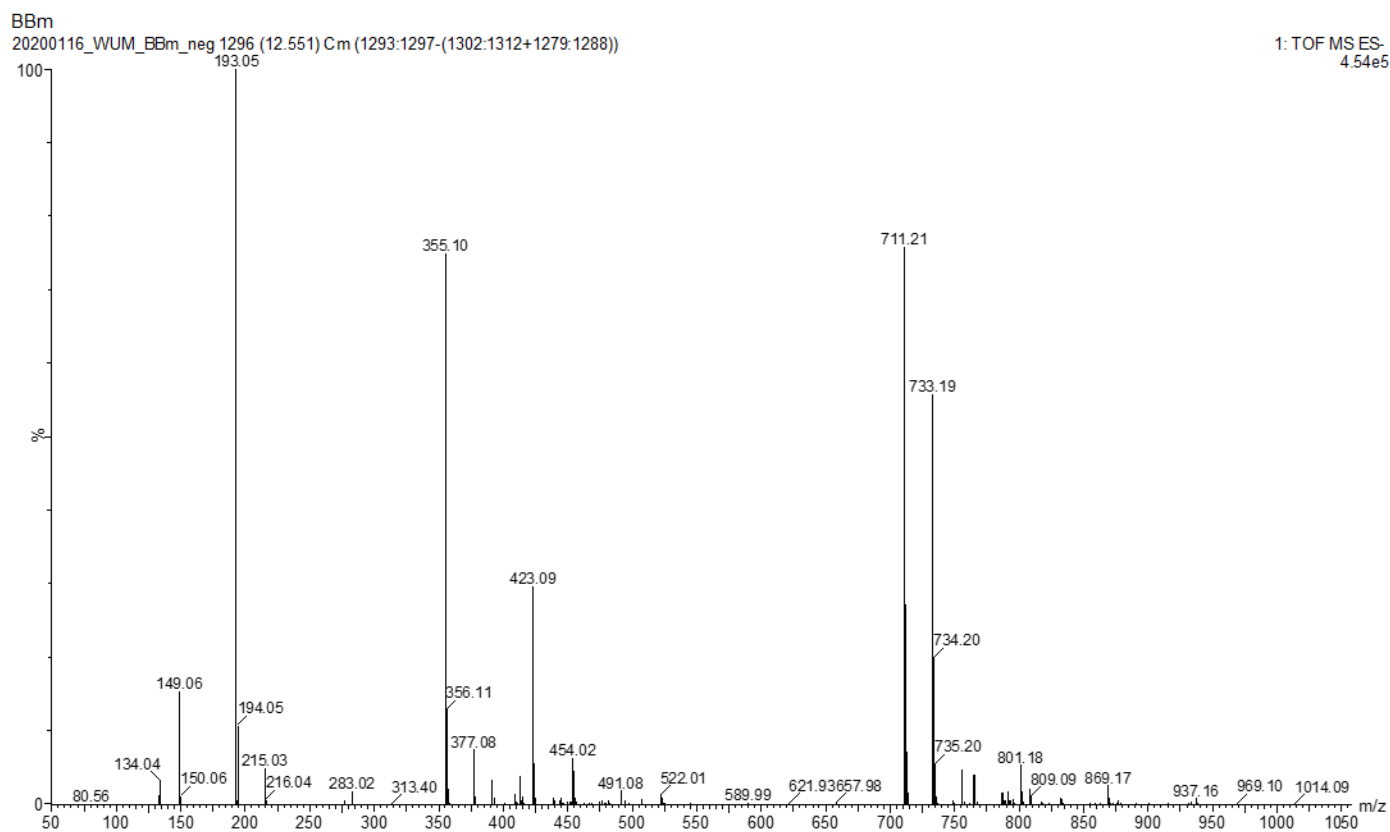


Figure S3: Mass spectrum of ferulic acid glucoside obtained for Betty's Blue macerate.