

Figure S1. HPLC-PDA profiles at 320 nm, showing phenolics separation in the total acetone extract of wormwood herb.

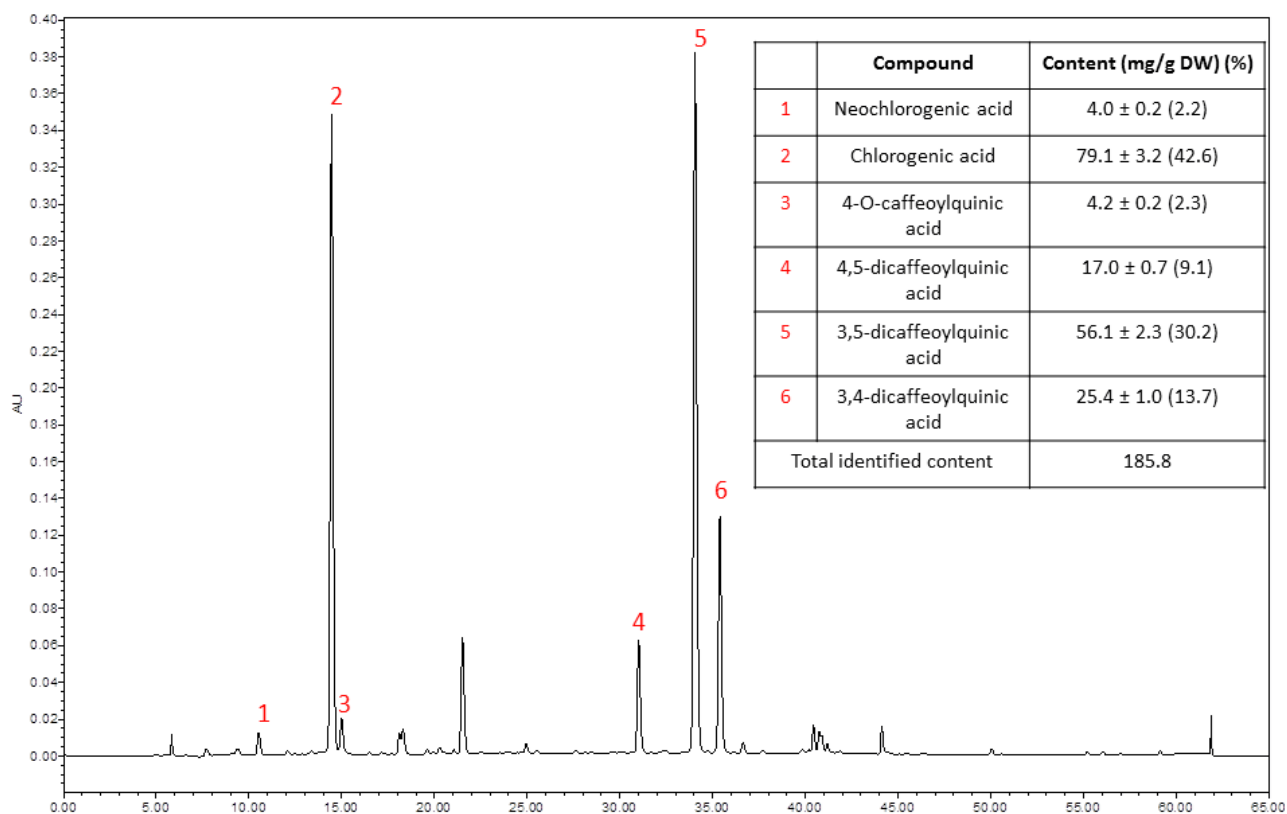


Figure S2. HPLC-PDA profiles at 320 nm, showing phenolics separation in the total acetone extract of silver wormwood herb.

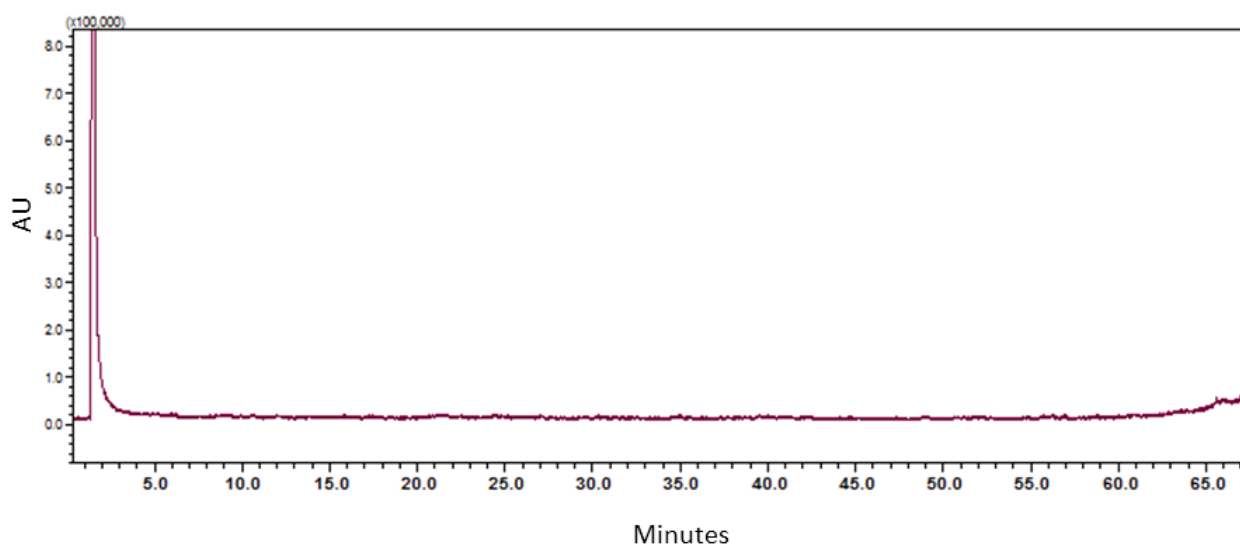


Figure S3. Example GC-MS profile of caffeoylquinic acid-rich fractions from wormwood and silver wormwood herb acetone extracts.

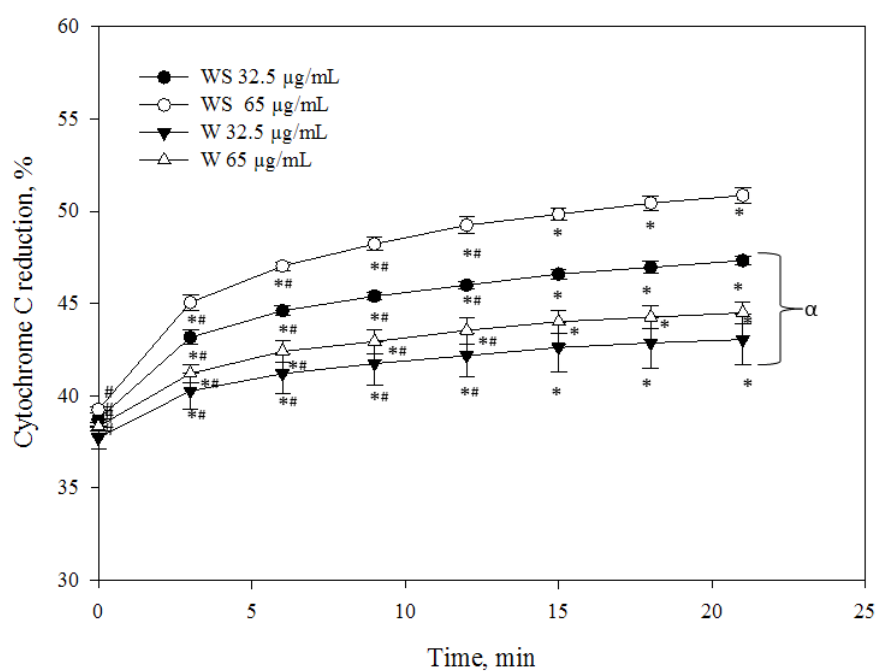


Figure S4. Effect of acetone extracts from wormwood (W) and silver wormwood (WS) herb on cytochrome c reduction. * $p < 0.05$ vs. at 0 min time; # $p < 0.05$ vs. at 21 min time; α $p < 0.05$ vs. 65 $\mu\text{g/mL}$ acetone extract from silver wormwood herb. WS marked acetone extract from silver wormwood herb, at 32.5 $\mu\text{g/mL}$ of WS the end concentration of compounds was consisted of 2572.32 \pm 104.08 ng/mL chlorogenic acid, 131.62 \pm 5.33 ng/mL neochlorogenic acid, 136.80 \pm 5.54 ng/mL 4-O-caffeoylquinic acid, 552.87 \pm 22.37 ng/mL 4,5-dicaffeoylquinic acid, 825.28 \pm 33.39 ng/mL 3,4-dicaffeoylquinic acid, 1823.48 \pm 73.78 ng/mL 3,5-dicaffeoylquinic acid. At 65 $\mu\text{g/mL}$ of WS the end concentration of compounds was consisted of 5144.64 \pm 208.17 ng/mL chlorogenic acid, 263.25 \pm 10.65 ng/mL neochlorogenic acid, 273.60 \pm 11.07 4-O-caffeoylquinic acid, 1105.74 \pm 44.74 ng/mL 4,5-dicaffeoylquinic acid, 1650.56 \pm 66.79 ng/mL 3,4-dicaffeoylquinic acid, 3646.97 \pm 147.57 ng/mL 3,5-dicaffeoylquinic acid. W marked acetone extract from wormwood herb, at 32.5 $\mu\text{g/mL}$ of W the end concentration of compounds was consisted of 1155.71 \pm 136.39 ng/mL chlorogenic acid, 77.57 \pm 9.16 ng/mL neochlorogenic acid, 34.58 \pm 4.08 ng/mL 4-O-caffeoylquinic acid, 30.44 \pm 3.59 ng/mL 4,5-dicaffeoylquinic acid, 184.76 \pm 21.80 ng/mL 3,4-dicaffeoylquinic acid,

254.03 \pm 29.98 ng/mL 3,5-dicaffeoylquinic acid, 4.25 \pm 0.50 ng/mL luteolin-7-glucoside, 38.83 \pm 4.58 ng/mL luteolin-7-rutenoside. At 65 μ g/mL of W the end concentration of compounds was consisted of 2311.42 \pm 272.79 ng/mL chlorogenic acid, 155.15 \pm 18.31 ng/mL neochlorogenic acid, 69.16 \pm 8.16 ng/mL 4-O-caffeoylquinic acid, 60.88 \pm 7.19 ng/mL 4,5-dicaffeoylquinic acid, 369.52 \pm 43.61 ng/mL 3,4-dicaffeoylquinic acid, 508.06 \pm 59.96 ng/mL 3,5-dicaffeoylquinic acid, 8.50 \pm 1.00 ng/mL luteolin-7-glucoside, 77.66 \pm 9.17 ng/mL luteolin-7-rutinoside.

Table S1. Total phenol content of total acetone extract, aqua and methanol fractions from the herb of wormwood and silver wormwood by HPLC-PDA method.

Extract	Total identified phenolic mg/g DW	
	Wormwood	Silver wormwood
Acetone (total)	54.4	185.8
Aqua	72.8	157.8
Methanol	325.1	655.8