



## Supplementary Materials

**Table S1.** Caffeine content (mean  $\pm$  SE, in mg/g) and decrease (%) in coffees and teas during successive extractions with different solvents (W: water; M: methanol; W:M water:methanol mix). Different letters in the table indicate statistical significance ( $p \leq 0.05$ ) in caffeine content between solvents.

	Caffeine content - First extraction (mg/g)			Caffeine content - Second extraction (mg/g)			Decrease (%)		
	W	M	W:M	W	M	W:M	W	M	W:M
<i>Teas</i>									
<b>Green tea</b>	16.62 $\pm$ 1.4 a	12.97 $\pm$ 0.4 b	16.02 $\pm$ 0.8 a	2.22 $\pm$ 0.6 a	2.40 $\pm$ 0.2 a	1.77 $\pm$ 0.2 a	86 $\pm$ 5	81 $\pm$ 2	89 $\pm$ 2
<b>Black tea</b>	26.80 $\pm$ 4.6 a	9.90 $\pm$ 0.9 b	30.94 $\pm$ 1.8 a	12.02 $\pm$ 4.1 a	3.20 $\pm$ 0.4 b	10.09 $\pm$ 1.6 a	54 $\pm$ 18	67 $\pm$ 6	67 $\pm$ 7
<b>Mate tea</b>	8.07 $\pm$ 2.3 a	6.17 $\pm$ 0.4 b	6.48 $\pm$ 0.5 b	1.85 $\pm$ 0.7 b	1.17 $\pm$ 0.5 b	3.82 $\pm$ 0.2 a	74 $\pm$ 18	81 $\pm$ 9	41 $\pm$ 4
<i>Coffees</i>									
<b>Instant</b>	34.82 $\pm$ 2.5 a	30.01 $\pm$ 2.3 b	23.06 $\pm$ 2.7 c	-	-	-	-	-	-
<b>Ground</b>	9.57 $\pm$ 2.7 a	8.04 $\pm$ 0.3 ab	6.99 $\pm$ 1.7 b	4.17 $\pm$ 1.0 a	3.33 $\pm$ 0.3 a	5.17 $\pm$ 1.0 a	50 $\pm$ 32	59 $\pm$ 4	20 $\pm$ 33
<b>Intense</b>	15.56 $\pm$ 1.8 a	7.17 $\pm$ 0.6 c	11.64 $\pm$ 2.4 b	3.59 $\pm$ 0.9 a	2.69 $\pm$ 0.4 a	4.86 $\pm$ 1.6 a	77 $\pm$ 8	63 $\pm$ 4	54 $\pm$ 29

**Table S2.** Phenolic compounds content (mean  $\pm$  SE, in mg/kg) and decrease (%) in green tea during successive extractions with different solvents (W: water, M: methanol; W:M water:methanol mix). Different letters in the table indicate statistical significance ( $p \leq 0.05$ ) in phenolic content between solvents.

	First extraction (mg/kg)			Second extraction (mg/kg)			DECREASE (%)		
	W	M	W:M	W	M	W:M	W	M	W:M
<i>Flavanols</i>									
Procyanidin dimer 1	1.39 $\pm$ 0.11 ab	1.04 $\pm$ 0.22 b	1.58 $\pm$ 0.09 a	0.72 $\pm$ 0.19 a	0.31 $\pm$ 0.12 ab	0.21 $\pm$ 0.08 b	48	70	87
Procyanidin dimer 2	13.39 $\pm$ 0.41 a	11.95 $\pm$ 0.22 b	12.51 $\pm$ 0.44 ab	10.39 $\pm$ 0.94 a	9.82 $\pm$ 0.76 a	8.86 $\pm$ 0.44 a	22	18	29
Procyanidin dimer 3	1.68 $\pm$ 0.19 a	1.25 $\pm$ 0.16 a	1.8 $\pm$ 0.06 a	0.43 $\pm$ 0.06 ab	0.23 $\pm$ 0.07 b	0.24 $\pm$ 0.05 a	74	82	87
Epigallocatechin 1	0.45 $\pm$ 0.03 b	0.42 $\pm$ 0.03 b	0.54 $\pm$ 0.02 a	0.14 $\pm$ 0.04 a	0.13 $\pm$ 0.02 a	0.08 $\pm$ 0.02 a	69	69	85
Epigallocatechin 2	1.17 $\pm$ 0.07 a	0.81 $\pm$ 0.13 b	1.42 $\pm$ 0.02 a	0.22 $\pm$ 0.05 a	0.17 $\pm$ 0.01 a	0.18 $\pm$ 0.02 a	81	79	87
Gallocatechin	0.26 $\pm$ 0.02 a	0.16 $\pm$ 0.04 b	0.32 $\pm$ 0.01 a	0.09 $\pm$ 0.02 a	0.08 $\pm$ 0.02 a	0.04 $\pm$ 0.01 a	65	50	88
Epigallocatechin gallate 1	0.94 $\pm$ 0.03 a	0.84 $\pm$ 0.01 b	0.88 $\pm$ 0.03 ab	0.73 $\pm$ 0.06 a	0.69 $\pm$ 0.05 a	0.62 $\pm$ 0.03 a	22	18	30
Epigallocatechin gallate 2	2.05 $\pm$ 0.35 a	1.68 $\pm$ 0.38 a	1.88 $\pm$ 0.03 a	0.37 $\pm$ 0.06 a	0.35 $\pm$ 0.05 a	0.23 $\pm$ 0.02 a	82	79	88
Epigallocatechin gallate 3	4.8 $\pm$ 2.16 b	11.46 $\pm$ 2.04 a	2.18 $\pm$ 0.06 b	2.19 $\pm$ 0.22 a	1.46 $\pm$ 0.3 ab	0.76 $\pm$ 0.04 b	54	87	65
Epigallocatechin gallate 4	0.55 $\pm$ 0.03 a	0.57 $\pm$ 0.03 a	0.64 $\pm$ 0.02 a	0.14 $\pm$ 0.01 a	0.11 $\pm$ 0.01 a	0.10 $\pm$ 0.01 a	75	81	84
Epicatechin gallate 1	0.004 $\pm$ 0.0005 c	0.02 $\pm$ 0.001 b	0.04 $\pm$ 0.005 a	traces	traces	traces			
Epicatechin gallate 2	traces	traces	traces	traces	traces	traces			

Epicatechin gallate 3	1.68 ± 0.12 a	1.78 ± 0.06 b	2.56 ± 0.09 b	0.46 ± 0.04 a	0.33 ± 0.01 b	0.34 ± 0.03 b	73	81	87
Theaflavine	1.12 ± 0.07 b	2.24 ± 0.034 b	2.01 ± 0.28 a	0.41 ± 0.05 a	0.28 ± 0.01 b	0.29 ± 0.02 b	63	88	86
<b>Total flavanols</b>	<b>29.48 ± 3.6 b</b>	<b>34.22 ± 3.4 a</b>	<b>28.36 ± 1.2 b</b>	<b>16.29 ± 1.8 a</b>	<b>13.96 ± 1.5 b</b>	<b>11.95 ± 0.8 c</b>	<b>45</b>	<b>59</b>	<b>58</b>
<b>Flavonols</b>									
Myricetin hexoside 1	0.07 ± 0.006 b	0.08 ± 0.003 b	0.11 ± 0.009 a	0.03 ± 0.003 a	0.16 ± 0.0004 b	0.02 ± 0.001 b	57	-100	82
Myricetin hexoside 2	0.08 ± 0.05 b	0.68 ± 0.02 c	1.12 ± 0.04 a	0.23 ± 0.02 a	0.16 ± 0.004 b	0.18 ± 0.011 b	-188	76	84
Quercetin hexoside rhamnoside hexoside	0.87 ± 0.06 a	0.62 ± 0.002 b	1.19 ± 0.03 b	0.19 ± 0.02 ab	0.15 ± 0.16 b	0.19 ± 0.24 a	78	76	84
Quercetin rhamnoside hexoside	0.22 ± 0.01 b	0.19 ± 0.01 b	0.34 ± 0.04 a	0.06 ± 0.017 a	0.05 ± 0.001 ab	0.05 ± 0.003 b	73	74	85
Quercetin-3-rutinoside	1.92 ± 0.13 b	1.59 ± 0.04 c	2.5 ± 0.08 a	0.57 ± 0.04 b	0.39 ± 0.01 c	0.45 ± 0.03 a	70	75	82
Quercetin-3-galactoside	0.19 ± 0.03 b	0.23 ± 0.02 b	0.28 ± 0.04 a	0.08 ± 0.007 a	0.06 ± 0.06 b	0.05 ± 0.01 b	58	74	82
Quercetin-3-glucoside	0.04 ± 0.003 a	0.03 ± 0.004 a	0.04 ± 0.005 a	0.02 ± 0.004 a	0.007 ± 0.002 b	0.007 ± 0.001 b	50	77	83
Kempferol-3-rutinoside	0.14 ± 0.01 b	0.14 ± 0.004 b	0.20 ± 0.01 a	0.05 ± 0.005 a	0.04 ± 0.042 b	0.03 ± 0.042 b	64	71	85
<b>Total flavonols</b>	<b>3.53 ± 0.3 b</b>	<b>3.56 ± 0.1 b</b>	<b>5.78 ± 0.3 a</b>	<b>1.23 ± 0.1 a</b>	<b>1.02 ± 0.3 b</b>	<b>0.98 ± 0.3 b</b>	<b>65</b>	<b>71</b>	<b>83</b>
<b>Phenolic acids</b>									
3- <i>p</i> -coumaroylquinic acid	0.04 ± 0.002 b	0.04 ± 0.002 b	0.05 ± 0.001 a	0.002 ± 0.0005 a	0.004 ± 0.0005 ab	0.003 ± 0.0005 b	95	90	94
3-caffeoylquinic acid	0.009 ± 0.008 b	0.07 ± 0.01 b	0.14 ± 0.003 a	0.02 ± 0.004 a	0.01 ± 0.002 a	0.01 ± 0.0009 a	-122	86	93
4-caffeoylquinic acid	0.05 ± 0.002 a	0.05 ± 0.004 a	0.05 ± 0.001 a	0.01 ± 0.002 a	0.006 ± 0.0008 a	0.005 ± 0.0003 a	80	88	90
5-caffeoylquinic acid	0.05 ± 0.006 b	0.04 ± 0.006 b	0.07 ± 0.002 a	0.02 ± 0.007 a	0.005 ± 0.001 a	0.008 ± 0.0006 a	60	88	89
5- <i>O</i> -galloylquinic acid	2.11 ± 0.26 a	1.08 ± 0.26 b	2.28 ± 0.05 a	1.28 ± 0.43 a	0.33 ± 0.08 b	0.28 ± 0.02 b	39	69	88
Gallic acid	0.22 ± 0.03 a	0.12 ± 0.03 b	0.24 ± 0.005 a	0.14 ± 0.05 a	0.03 ± 0.008 b	0.03 ± 0.003 b	36	75	88
<b>Total phenolic acids</b>	<b>2.48 ± 0.3 a</b>	<b>1.40 ± 0.3 b</b>	<b>2.83 ± 0.1 a</b>	<b>1.47 ± 0.5 a</b>	<b>0.39 ± 0.1 b</b>	<b>0.34 ± 0.1 b</b>	<b>41</b>	<b>72</b>	<b>88</b>

**Table S3.** Phenolic compounds content (mean ± SE, in mg/kg) and decrease (%) in black tea during successive extractions with different solvents (W: water, M: methanol; W:M water:methanol mix). Different letters in the table indicate statistical significance ( $p \leq 0.05$ ) in phenolic content between solvents.

	First extraction (mg/kg)			Second extraction (mg/kg)			DECREASE (%)		
	W	M	W:M	W	M	W:M	W	M	W:M
<b>Flavanols</b>									
Epicatechin	4.08 ± 0.29 a	0.60 ± 0.02 b	4.17 ± 0.13 a	0.85 ± 0.29 a	0.16 ± 0.02 b	0.94 ± 0.10 a	79	73	77

Catechin	0.35 ± 0.34 b	0.05 ± 0.006 b	0.33 ± 0.008 a	0.06 ± 0.01 a	0.01 ± 0.001 b	0.05 ± 0.008 a	83	80	85
Epigallocatechin 1	0.42 ± 0.05 b	0.14 ± 0.02 c	0.49 ± 0.01 a	0.07 ± 0.02 a	0.04 ± 0.02 a	0.09 ± 0.005 a	83	71	82
Gallocatechin	1.33 ± 0.12 a	0.37 ± 0.01 b	1.17 ± 0.03 a	0.32 ± 0.32 a	0.12 ± 0.19 b	0.46 ± 0.46 a	76	68	61
Epigallocatechin gallate	2.88 ± 0.14 a	0.59 ± 0.04 b	2.84 ± 0.05 a	0.39 ± 0.11 a	0.16 ± 0.02 b	0.32 ± 0.04 ab	86	73	89
Epicatechin gallate 1	0.89 ± 0.08 b	0.16 ± 0.02 c	1.13 ± 0.47 a	0.20 ± 0.07 a	0.03 ± 0.002 b	0.17 ± 0.03 a	78	81	85
Epicatechin gallate 2	traces	traces	traces	traces	traces	traces			
Gallocatechin gallate	0.59 ± 0.04 b	0.26 ± 0.01 b	0.58 ± 0.03 a	0.13 ± 0.04 a	0.09 ± 0.01 a	0.12 ± 0.01 a	78	65	79
Theaflavine	1.11 ± 0.93 a	0.57 ± 0.23 b	1.34 ± 0.02 a	0.51 ± 0.83 b	0.11 ± 0.15 b	0.17 ± 0.38 b	54	81	87
Theaflavine-3,3'-digallate	0.84 ± 0.06 b	0.68 ± 0.05 b	1.38 ± 0.61 a	0.31 ± 0.09 a	0.13 ± 0.01 a	0.13 ± 0.06 a	63	81	91
Theaflavine-3-gallate	0.77 ± 0.06 b	0.53 ± 0.03 c	1.18 ± 0.05 a	0.37 ± 0.06 a	0.09 ± 0.008 b	0.15 ± 0.04 b	52	83	87
<b>Total flavanols</b>	<b>13.26 ± 2.1 b</b>	<b>3.95 ± 0.4 c</b>	<b>14.61 ± 1.4 a</b>	<b>3.21 ± 1.8 a</b>	<b>0.94 ± 0.4 c</b>	<b>2.60 ± 1.1 ab</b>	<b>76</b>	<b>76</b>	<b>82</b>
<b>Flavonols</b>									
Myricetin hexoside 1	0.22 ± 0.02 b	0.05 ± 0.005 c	0.28 ± 0.01 a	0.08 ± 0.008 a	0.011 ± 0.0009 b	0.07 ± 0.008 a	64	78	75
Myricetin hexoside 2	0.33 ± 0.07 b	0.091 ± 0.014 c	0.42 ± 0.03 a	0.11 ± 0.02 a	0.022 ± 0.001 b	0.12 ± 0.01 a	67	76	71
Quercetin rhamnosil hexoside dirhamnoside	0.11 ± 0.03 b	0.11 ± 0.007 c	0.49 ± 0.008 a	0.13 ± 0.02 a	0.02 ± 0.001 b	0.11 ± 0.17 a	-18	82	78
Quercetin rhamnoside hexoside	traces	traces	traces	traces	traces	traces			
Quercetin-3-rutinoside	2.03 ± 0.15 b	0.52 ± 0.02 c	2.39 ± 0.51 a	0.47 ± 0.06 a	0.11 ± 0.006 b	0.41 ± 0.04 a	77	79	83
Quercetin-3-galactoside	0.87 ± 0.06 b	0.29 ± 0.001 c	1.14 ± 0.03 a	0.33 ± 0.04 a	0.08 ± 0.08 b	0.29 ± 0.38 a	62	72	75
Quercetin-3-glucoside	1.53 ± 0.11 b	0.53 ± 0.014 c	1.94 ± 0.05 a	0.25 ± 0.11 a	0.15 ± 0.006 b	0.49 ± 0.04 a	84	72	75
Kaempferol-3-rutinoside	0.72 ± 0.05 b	0.19 ± 0.008 c	0.87 ± 0.02 a	0.2 ± 0.02 a	0.04 ± 0.002 b	0.18 ± 0.018 a	72	79	79
Kaempferol-3-galactoside	0.45 ± 0.03 a	0.16 ± 0.07 b	0.68 ± 0.01 a	0.18 ± 0.02 a	0.04 ± 0.046 b	0.16 ± 0.02 a	60	75	76
Kaempferol-3-glucoside	0.95 ± 0.07 b	0.37 ± 0.04 c	1.31 ± 0.08 a	0.37 ± 0.05	0.10 ± 0.003 b	0.32 ± 0.03 a	61	73	76
Kaempferol hexoside rhamnoside	0.02 ± 0.002 b	0.006 ± 0.0005 c	0.04 ± 0.0009 a	0.008 ± 0.001 a	0.001 ± 0.0001 b	0.006 ± 0.0008 a	60	83	85
Kaempferol hexoside trirhamnoside	0.15 ± 0.02 b	0.56 ± 0.005 c	0.24 ± 0.02 a	0.06 ± 0.01 a	0.01 ± 0.001 b	0.06 ± 0.008 a	60	98	75
Kaempferol acetyl hexoside	0.19 ± 0.02 b	0.06 ± 0.007 c	0.27 ± 0.008 a	0.07 ± 0.01	0.01 ± 0.001 b	0.06 ± 0.009 a	63	83	78
<b>Total flavonols</b>	<b>7.57 ± 0.6 b</b>	<b>2.94 ± 0.2 c</b>	<b>10.07 ± 0.8 a</b>	<b>2.26 ± 0.4 a</b>	<b>0.59 ± 0.1 b</b>	<b>2.28 ± 0.7 a</b>	<b>70</b>	<b>80</b>	<b>77</b>
<b>Phenolic acids</b>									
3-p-coumaroylquinic acid	0.39 ± 0.06 a	0.04 ± 0.002 c	0.33 ± 0.01 b	0.06 ± 0.008 a	0.02 ± 0.001 c	0.21 ± 0.01 a	85	50	36

4-coumaroylquinic acid	1.44 ± 0.09 a	0.29 ± 0.01 b	1.14 ± 0.22 a	0.15 ± 0.03 a	0.08 ± 0.004 b	0.15 ± 0.01 a	90	72	87
5-p-coumaroylquinic acid	0.09 ± 0.02 b	0.02 ± 0.002 c	0.30 ± 0.01 a	0.08 ± 0.01 a	0.004 ± 0.001 b	0.07 ± 0.01 a	11	80	77
3-caffeoylquinic acid 1	0.38 ± 0.03 a	0.53 ± 0.005 b	0.39 ± 0.009 a	0.09 ± 0.01 a	0.01 ± 0.0009 c	0.05 ± 0.006 b	76	98	87
3-caffeoylquinic acid 2	0.19 ± 0.01 a	0.02 ± 0.001 c	0.16 ± 0.01 b	0.03 ± 0.04 b	0.01 ± 0.0007 c	0.1 ± 0.007 a	84	50	38
4-caffeoylquinic acid	2.08 ± 0.11 a	0.44 ± 0.02 b	2 ± 0.05 a	0.30 ± 0.04 a	0.11 ± 0.008 b	0.22 ± 0.027 a	86	75	89
5-caffeoylquinic acid 1	0.58 ± 0.04 a	0.09 ± 0.01 b	0.59 ± 0.01 a	0.11 ± 0.002 a	0.11 ± 0.002 a	0.09 ± 0.01 a	81	-22	85
5-caffeoylquinic acid 2	0.03 ± 0.002 b	0.005 ± 0.001 c	0.05 ± 0.002 a	0.01 ± 0.002 a	0.007 ± 0.0002 c	0.008 ± 0.001 b	67	-40	84
<b>Total phenolic acids</b>	<b>5.18 ± 0.4 a</b>	<b>1.44 ± 0.1 b</b>	<b>4.96 ± 0.3 a</b>	<b>0.83 ± 0.1 a</b>	<b>0.35 ± 0.0 b</b>	<b>0.90 ± 0.1 a</b>	<b>84</b>	<b>76</b>	<b>82</b>

**Table S4.** Phenolic compounds content (mean ± SE, in mg/kg) and decrease (%) in mate tea during successive extractions with different solvents (W: water, M: methanol; W:M water:methanol mix). Different letters in the table indicate statistical significance ( $p \leq 0.05$ ) in phenolic content between solvents.

	First extraction (mg/kg)			Second extraction (mg/kg)			DECREASE (%)		
	W	M	W:M	W	M	W:M	W	M	W:M
<i>Flavonols</i>									
Quercetin-3-rutinoside	4.92 ± 1.11 a	3.86 ± 0.20	± ±	1.83 ± 0.11 b	0.77 ± 0.15	± ±	63	80	25
		0.19 ± 0.16	a a		0.26 ± 0.32	c a			
Quercetin-3-glucoside	0.67 ± 0.04 a	0.43 ± 0.45	± ±	0.17 ± 0.01 b	0.13 ± 0.32	± ±	75	70	29
		0.04 ± 0.02	b b		0.05 ± 0.32	b a			
Kaempferol-3-rutinoside	1.10 ± 0.06 b	0.69 ± 0.73	± ±	0.29 ± 0.01 a	0.14 ± 0.55	± ±	74	80	25
		0.04 ± 0.02	b a		0.03 ± 0.03	b b			
Isorhamnetin-3-rutinoside	0.33 ± 0.02 b	0.19 ± 0.22	± ±	0.83 ± 0.005 a	0.02 ± 0.17	± ±	-152	89	23
		0.02 ± 0.00	c 9 a		0.02 ± 0.01	b b			
<b>Total flavonols</b>	<b>7.02 ± 1.2 a</b>	<b>5.17 ± 0.60</b>	± ±	<b>3.12 ± 0.1 b</b>	<b>1.06 ± 0.19</b>	± ±	<b>56</b>	<b>79</b>	<b>25</b>
		<b>0.3 ± 0.2</b>	b b		<b>0.4 ± 0.7</b>	c a			
<i>Phenolic acids</i>									
3-p-coumaroylquinic acid	4.18 ± 0.53 a	1.11 ± 0.72	± ±	0.81 ± 0.13 b	0.38 ± 0.53	± ±	81	66	44
		0.06 ± 0.07	c b		0.02 ± 0.58	c a			
4-coumaroylquinic acid	0.09 ± 0.008 a	0.06 ± 0.04	± ±	0.02 ± 0.002 b	0.05 ± 0.05	± ±	78	17	-25

		0.000.00 9 b 3 b 6.8713.2		0.010.00 a 5 a 7.5613.7		
3-caffeoylquinic acid	19 ± 2.28 a	± 6 ± 0.330.83 c b	23.64 ± 2.28 a	± 6 ± 0.330.34 c b	-24	- 10 <sup>-4</sup>
4-caffeoylquinic acid	3.75 ± 0.45 a	1.08 2.5 ± ± 0.140.15 c b	0.75 ± 0.13 b	0.371.44 ± ± 0.030.01 c a	80	66 42
5-caffeoylquinic acid 1	0.04 ± 0.005 a	0.010.03 ± ± 0.000.00 06 c06 b	0.008 ± 0.001 b	0.00 4 4 0.01 ± ± 0.00 0.00 03 c 01 a	80	56 67
5-caffeoylquinic acid 2	0.005 ± 2.83 a	0.000.00 3 ± 4 ± 4.168.45 b b	0.0009 ± 0.0002 a	0.000.00 3 ± 2 ± 0.000.00 07 b02 a	82	0 50
Dicaffeoylquinic acid 1	5.26 ± 0.23 d	1.492.78 ± ± 0.130.07 c b	1.48 ± 0.07 b	0.381.80 ± ± 0.080.09 c a	72	74 35
Dicaffeoylquinic acid 2	17.0 ± 2.14 a	9.1711.7 ± 9 0.05±0.3 b 0 b	6.20 ± 0.57 b	1.897.63 ± ± 0.290.34 c a	64	79 35
Dicaffeoylquinic acid 3	8.44 ± 1.06 a	3.754.07 ± ± 0.221.25 b b	3.86 ± 0.36 a	0.913.95 ± ± 0.140.18 b a	54	76 3
Dicaffeoylquinic acid 4	0.76 ± 0.06 a	0.410.48 ± ± 0.080.03 b b	0.21 ± 0.01 ab	0.130.29 ± ± 0.050.03 a b	72	68 40
3-feruloylquinic acid	0.15 ± 0.02 a	0.04 0.1 ± ± 0.000.00 6 c 6 b	0.03 ± 0.005 b	0.010.06 ± ± 0.000.00 1 c 06 a	80	75 40
4-feruloylquinic acid	0.21 ± 0.01 a	0.120.13 ± ± 0.010.00 b 5 b	0.04 ± 0.005 b	0.080.08 ± ± 0.000.00 2 a 4 a	81	33 38
<b>Total phenolic acids</b>	<b>58.89 ± 9.6 a</b>	<b>24.137.9</b> <b>1 ± 0 ±</b> <b>5.2 11.2</b> <b>c b</b>	<b>37.05 ± 3.6 a</b>	<b>11.730.6</b> <b>6 ± 0 ±</b> <b>1.0 2.6</b> <b>c b</b>	<b>37</b>	<b>51 19</b>

**Table S5.** Phenolic acids content (mean ± SE, in mg/kg) and decrease (%) in coffees during successive extractions with different solvents (W: water, M: methanol; W:M water:methanol mix). Different letters in the table indicate statistical significance ( $p \leq 0.05$ ) in phenolic content between solvents.

	First extraction (mg/kg)			Second extraction (mg/kg)			DECREASE (%)		
	W	M	W: M	W	M	W: M	W	M	W: M
<b>INSTANT COFFEE</b>									
3-p-coumaroylquinic acid	0.06 ± 0.01 a	0.03 ± 0.00	0.04 ± 0.00	n.a	n.a	n.a	n.a	n.a	n.a
4-p-coumaroylquinic acid	0.14 ± 0.02 c	0.02 ± 0.00	0.16 ± 0.00	n.a	n.a	n.a	n.a	n.a	n.a
3-caffeoylquinic acid 1	4.44 ± 0.15 a	0.11 ± 0.01	0.11 ± 0.01	n.a	n.a	n.a	n.a	n.a	n.a
3-caffeoylquinic acid 2	1.99 ± 0.43 a	0.08 ± 0.00	0.16 ± 0.00	n.a	n.a	n.a	n.a	n.a	n.a
4-caffeoylquinic acid	5.81 ± 0.23 a	0.11 ± 0.01	0.22 ± 0.01	n.a	n.a	n.a	n.a	n.a	n.a
5-caffeoylquinic acid	5.44 ± 0.02 c	0.42 ± 0.01	0.76 ± 0.01	n.a	n.a	n.a	n.a	n.a	n.a
Dicaffeoylquinic acid 1	0.39 ± 0.03 b	0.03 ± 0.00	0.02 ± 0.00	n.a	n.a	n.a	n.a	n.a	n.a
Dicaffeoylquinic acid 2	0.48 ± 0.02 a	0.02 ± 0.00	0.02 ± 0.00	n.a	n.a	n.a	n.a	n.a	n.a
Dicaffeoylquinic acid 3	0.35 ± 0.02 a	0.02 ± 0.00	0.02 ± 0.00	n.a	n.a	n.a	n.a	n.a	n.a
Dicaffeoylquinic acid 4	0.44 ± 0.02 a	0.03 ± 0.00	0.03 ± 0.00	n.a	n.a	n.a	n.a	n.a	n.a
Dicaffeoylquinic lactone	0.73 ± 0.02 c	0.24 ± 0.01	0.09 ± 0.01	n.a	n.a	n.a	n.a	n.a	n.a
3-feruloylquinic acid	0.24 ± 0.009 a	0.12 ± 0.01	0.14 ± 0.01	n.a	n.a	n.a	n.a	n.a	n.a

		0.00 0.00					
		5 b 9 b					
		3.99 4.11					
4-feruloylquinic acid	1.76 ± 0.06 b	± ± 0.21 0.26 a a	n.a	n.a n.a	n.a	n.a	n.a
		0.02 0.03					
5-feruloylquinic acid	0.02 ± 0.004 a	± ± 0.01 0.00 a 4 a	n.a	n.a n.a	n.a	n.a	n.a
		25.0 28.4					
<b>Total phenolic acids</b>	<b>22.29 ± 1.0 c</b>	<b>5 ± 2 ± 1.3 1.7 b a</b>	<b>n.a</b>	<b>n.a n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>
<b>STANDARD COFFEE</b>							
		0.00 0.00					
3-p-coumaroylquinic acid	0.01 ± 0.001 a	7 ± 9 ± 0.00 0.00 01 b 1 b	0.008 ± 0.001 b	0.00 0.00 4 ± 5 ± 0.00 0.00 3 b 2 ab	20	43 44	
		0.07 0.02					
4-p-coumaroylquinic acid	0.06 ± 0.005 b	± ± 0.00 0.00 2 a 4 c	0.03 ± 0.004 a	± ± 0.00 0.00 3 a 3 a	50	43 -50	
		0.89 2.19					
3-caffeoylquinic acid 1	3.13 ± 0.41 a	± ± 0.02 0.36 b a	0.98 ± 0.07 b	± ± 0.08 0.32 b a	69	20 13	
		0.24 0.31					
3-caffeoylquinic acid 2	0.50 ± 0.05 a	± ± 0.00 0.03 5 b b	0.26 ± 0.03 a	± ± 0.01 0.05 b ab	48	46 39	
		1.08 2.57					
4-caffeoylquinic acid	3.69 ± 0.46 a	± ± 0.05 0.33 c b	1.40 ± 0.10 b	± ± 0.00 0.29 8 b a	62	10 23	
		6.79 16.3					
5-caffeoylquinic acid 1	6.13 ± 0.73 b	± 2 ± 0.21 1.91 b a	2.32 ± 0.15 c	± 4 ± 0.56 1.84 b a	62	6 19	
		0.12 0.07					
5-caffeoylquinic acid 2	0.13 ± 0.02 a	± ± 0.00 0.02 2 a b	0.07 ± 0.008 a	± ± 0.00 0.00 4 b 7 a	46	58 0	
		0.29 0.19					
Dicaffeoylquinic acid 1	0.26 ± 0.02 ab	± ± 0.02 0.03 a b	0.18 ± 0.02 a	± ± 0.01 0.00 a 9 a	31	52 26	
		0.36 0.42					
Dicaffeoylquinic acid 2	0.59 ± 0.06 a	± ±	0.42 ± 0.05 a	0.29 0.37 ± ±	29	19 12	

		0.01 0.05 b a 0.31 0.33 ± ± 0.01 0.05 b b 0.49 0.53		0.01 0.03 b ab 0.24 0.29 ± ± 0.02 0.02 a a 0.36 0.47		
Dicaffeoylquinic acid 3	0.45 ± 0.04 a	0.32 ± 0.04 a			29	23 12
Dicaffeoylquinic acid 4	0.67 ± 0.06 a	0.45 ± 0.06 a			33	27 11
Dicaffeoylquinic lactone	0.58 ± 0.06 c	0.33 ± 0.04 b			43	48 -3
3-feruloylquinic acid	0.15 ± 0.02 a	0.06 ± 0.004 b			60	0 25
4-feruloylquinic acid	0.59 ± 0.06 b	0.33 ± 0.04 c			44	41 13
5-feruloylquinic acid	0.009 ± 0.0009 b	0.09 ± 0.02 a			-900	- - 30 265 0 0
<b>Total phenolic acids</b>	<b>16.95 ± 2.0 b</b>	<b>7.25 ± 0.6</b>			<b>57</b>	<b>23 16</b>
<b>INTENSE COFFEE</b>						
3- <i>p</i> -coumaroylquinic acid	traces	traces		traces		
4- <i>p</i> -coumaroylquinic acid	0.07 ± 0.005 a	0.009 ± 0.0005 ab			87	73 80
3-caffeoylquinic acid 1	0.47 ± 0.03 a	0.11 ± 0.007 a			77	40 52
3-caffeoylquinic acid 2	1.99 ± 0.43 a	0.08 ± 0.05 b			96	96 89
4-caffeoylquinic acid	0.53 ± 0.03 a	0.13 ± 0.007 a			75	60 54
5-caffeoylquinic acid	0.82 ± 0.05 b	0.18 ± 0.01 b			78	43 52



		0.03 0.19 c a		0.01 0.15 b a		
		0.42 0.08 ± ±		0.01 0.10 ± ±		
Dicaffeoylquinic acid 2	0.12 ± 0.01 a	0.00 0.00 7 c 7 b	0.08 ± 0.009 a	0.00 0.02 4 b a	33	98 -25
		0.04 0.08 ± ±		0.01 0.09 ± ±		
Dicaffeoylquinic acid 3	0.13 ± 0.009 a	0.02 0.00 c 6 b	0.07 ± 0.009 a	0.00 0.02 3 b a	46	75 -13
		0.06 0.12 ± ±		0.02 0.13 ± ±		
Dicaffeoylquinic acid 4	0.18 ± 0.01 a	0.01 0.01 c b	0.09 ± 0.01 a	0.00 0.22 1 b a	50	67 -8
		0.85 0.94 ± ±		0.29 0.56 ± ±		
Dicaffeoylquinic lactone	0.27 ± 0.02 b	0.07 0.09 a a	0.09 ± 0.006 c	0.03 0.08 b a	67	66 40
		0.04 0.01 ± ±		trac trac es es		
3-feruloylquinic acid	0.02 ± 0.001 a	0.00 0.00 02 c 1 b	traces			
		0.23 0.67 ± ±		0.12 0.23 ± ±		
4-feruloylquinic acid	0.23 ± 0.01 b	0.00 0.06 8 b a	0.03 ± 0.002 c	0.00 0.03 9 b a	87	48 66
		0.00 0.00 4 ± 8 ±		0.00 0.04 7 ± ±		
5-feruloylquinic acid	0.01 ± 0.0008 a	0.00 0.00 2 c 07 b	0.02 ± 0.005 b	0.00 0.00 08 b 6 a	-100	- - 75 400
		3.16 6.17 ± ±		0.82 2.68 ± ±		
Total phenolic acids	4.84 ± 0.6 b	0.2 0.6 c a	0.89 ± 0.1 b	0.5 0.6 b a	82	74 57