

Table S2 Experimental design by Box-Behnken and the results* of the experiments (Solvent: ethanol-water, 50:50, v:v)

Run	Independent variables			Dependent variables		
	X ₁ (min)	X ₂ (1/X)	X ₃ (W)	TPC (mg GAE/L)	TAC _{CUPRAC} (mmol TE/L)	TAC _{DPPH} (mgDPPH/L)
1	5 (-1)	20 (-1)	400 (0)	969.8±1.96	17.2±0.19	129.6±1.86
2	15 (1)	20 (-1)	400 (0)	979.0±3.00	14.9±0.18	132.2±3.85
3	5 (-1)	40 (1)	400 (0)	634.5±1.96	7.8±0.07	67.1±3.37
4	15 (1)	40 (1)	400 (0)	656.7±4.93	7.7±0.13	60.8±0.99
5	5 (-1)	30 (0)	200 (-1)	951.5±1.13	9.7±0.45	81.2±0.67
6	15 (1)	30 (0)	200 (-1)	654.1±1.96	9.7±0.44	84.4±2.89
7	5 (-1)	30 (0)	600 (1)	827.3±4.08	9.6±0.33	81.4±5.14
8	15 (1)	30 (0)	400 (0)	708.4±1.13	10.1±0.63	80.7±0.65
9	10 (0)	20 (-1)	200 (-1)	1106.4±3.00	12.8±0.98	130.8±2.74
10	10 (0)	40 (1)	200 (-1)	837.1±1.13	6.8±0.51	70.3±1.16
11	10 (0)	20 (-1)	600 (1)	1050.2±1.96	17.3±0.33	134.4±3.00
12	10 (0)	40 (1)	600 (1)	743.0±1.13	6.6±0.35	77.7±1.94
13	10 (0)	30 (0)	400 (0)	896.6±1.12	9.8±0.27	91.4±5.00
14	10 (0)	30 (0)	400 (0)	818.8±1.96	8.7±0.48	99.0±5.07
15	10 (0)	30 (0)	400 (0)	823.4±4.08	9.5±0.48	95.6±0.49
16	10 (0)	30 (0)	400 (0)	867.8±1.96	9.2±0.61	108.1±1.80
17	10 (0)	30 (0)	400 (0)	888.1±1.13	8.1±0.31	87.3±5.14

*The results were given as the mean of three replicates with the standard deviations.