

Table S1. The effects of the solvent, particle size and extraction time on the extraction yield

	SS	Degree of freedom	MS	F	<i>p</i>
Intercept	742820.9	1	742820.9	3344.1	0.000000***
Solvent	357077.7	12	29756.5	134.0	0.000000*
Particle size	17592.7	1	17592.7	79.2	0.000000*
Extraction time	14523.6	3	4841.2	21.8	0.000000*
Error	16659.8	75	222.1		

* significant at $p < 0.001$ level

Table S2. The effects of the solvent, particle size and extraction time on the total phenolic content

	SS	Degree of Freedom	MS	F	<i>p</i>
Intercept	24523.6	1	24523.6	1918.2	0.000000*
Solvent	2223.8	12	185.3	14.5	0.000000*
Particle size	489.6	1	489.6	38.3	0.000000*
Extraction time	725.4	3	241.8	18.9	0.000000*
Error	958.8	75	12.8		

* significant at $p < 0.001$ level

Table S3. The effects of the solvent, particle size and extraction time on the total flavonoid content

	SS	Degree of Freedom	MS	F	<i>p</i>
Intercept	723.4	1	723.4	197.2	0.000000**
Solvent	927.0	12	77.2	21.1	0.000000**
Particle size	14.6	1	14.6	4.0	0.049388*
Extraction time	95.5	3	31.8	8.7	0.000052**
Error	275.2	75	3.7		

* significant at $p < 0.5$ level; ** significant at $p < 0.001$ level

Table S4. The effects of the solvent, particle size and extraction time on the DPPH

	SS	Degree of Freedom	MS	F	<i>p</i>
Intercept	245953.8	1	245953.8	1054.7	0.000000**
Solvent	128876.7	12	10739.7	46.1	0.000000**
Particle size	528.5	1	528.5	2.3	0.136413*
Extraction time	16179.0	3	5393.0	23.1	0.000000**
Error	17489.7	75	233.2		

* significant at $p < 0.5$ level; ** significant at $p < 0.001$ level

Table S5. The effects of the solvent, particle size and extraction time on the IC₅₀

	SS	Degree of Freedom	MS	F	<i>p</i>
Intercept	106264.3	1	106264.3	1507.1	0.000000*
Solvent	55960.8	12	4663.4	66.1	0.000000*
Particle size	2622.6	1	2622.6	37.2	0.000000*

Extraction time	6841.3	3	2280.4	32.3	0.000000*
Error	5288.0	75	70.5		

* significant at $p < 0.001$ level