

Supplementary Information

Table S1. Identification and chemical characterization of chemical components authentically or tentatively in the water extracts from *Chaenomeles sinensis* fruit using LC-ESI-QTOF MS/MS

No.	Identified or proposed compound	Formula	mass (Da)	Expected RT (min)	Adduct	Found at mass (Da)	Error (ppm)
6	gallic acid	C7H6O5	170.0215	2.71	[M-H] ⁻	169.0144	0.7
7	vanillic acid	C8H8O4	168.0423	3.34	[M-H] ⁻	167.0349	-0.2
1	protocatechuic acid	C7H6O4	154.0266	3.86	[M-H] ⁻	153.0195	0.9
8	Neochlorogenic acid	C16H18O9	354.0951	4.02	[M-H] ⁻	353.0875	-0.9
9	Procyanidin dimer 1	C30H26O12	578.1424	4.06	[M-H] ⁻	577.1347	-0.7
10	catechin	C15H14O6	290.0790	4.69	[M-H] ⁻	289.0717	-0.2
11	Procyanidin dimer 2	C30H26O12	578.1424	4.85	[M-H] ⁻	577.1347	-0.7
12	chlorogenic acid	C16H18O9	354.0951	5.00	[M-H] ⁻	353.0876	-0.7
13	Cryptochlorogenic acid	C16H18O9	354.0951	5.01	[M-H] ⁻	353.0876	-0.7
14	epicatechin	C15H14O6	290.0790	5.67	[M-H] ⁻	289.0718	0.1
15	syringic acid	C9H10O5	198.0528	6.13	[M-H] ⁻	197.0455	-0.3
16	Procyanidin dimer 3	C30H26O12	578.1424	6.48	[M-H] ⁻	577.1350	-0.2
17	Glucopyranosyl-coumaric acid	C18H28O10	403.1605	6.62	[M-H] ⁻	403.1606	0.3
2	Quercetin	C15H10O7	302.0427	9.00	[M-H] ⁻	301.0352	-0.6
3	Luteolin	C15H10O6	286.0477	9.30	[M-H] ⁻	285.0402	-0.9
18	Betulinic acid	C30H48O3	456.3603	23.34	[M-H] ⁻	455.3531	0.1
4	Oleanolic acid	C30H48O3	456.3603	25.82	[M-H] ⁻	455.3527	-0.8
5	Ursolic acid	C30H48O3	456.3603	26.41	[M-H] ⁻	455.3523	-1.8

Figure S1. The extracted ion chromatograms (XICs) of 18 characterized peaks including five components identified with reference standards in the water extract were obtained and identified tentatively using LC-ESI-QTOF MS/MS analysis in negative ion mode

