

Table S1. UPLC/ESI-MS² characterization of polyphenolic compounds in sea buckthorn leaves and berries extracts obtained by convectional extraction (CE)

Phenolic compounds		Precursor Ion (m/z)	Fragment Ions (m/z)	Ionization Mode	Mass Concentration (mg/100 g dm)	
					Leaves	Berries
FLAVONOLS						
1	Isorhamnetin	317	201	positive	3.2±0.0	0.7±0.0
2	Isorhamnetin-3-sinapoyglucose-glucoside-7-rhamnoside	993	463, 317	positive	1.8±0.0	2.2±0.0
3	Ishorhamnetin-3-sophoroside-7-rhamnoside	787	463, 317	positive	7.8±1.0	1.3±0.0
4	Isorhamnetin-3-rutinoside-7-glucoside	787	479, 317	positive	3.7±0.0	2.4±0.0
5	Isorhamnetin-3-hexoside	479	317	positive	49.0±3.6	17.7±2.6
6	Isorhamnetin-3-rhamnoside	463	317	positive	10.8±1.4	40.6±4.1
7	Isorhamnetin-3,7-dihexoside	641	479, 317	positive	15.9±2.1	41.1±5.13
8	Isorhamnetin-3-rutinoside	625	479, 317	positive	17.8±1.9	19.7±0.6
9	Kaempferol	287	145	positive	18.0±2.6	30.9±1.5
10	Kaempferol-3-O-sophorose-7-O-rhamnoside	757	287	positive	5.8±0.5	15.3±0.9
11	Kaempferol-3-O-glucoside-7-O-rhamnoside	595	433, 287	positive	nd	11.4±1.4
12	Kaempferol-3-rutinoside*	595	287	positive	1.0±0.1	303.1±14.5
13	Kaempferol-rhamnoside	433	287	positive	0.5±0.0	61.3±8.6
14	Quercetin-3-sophoroside-7-rhamnoside	773	611, 303	positive	2.4±0.1	7.3±0.3
15	Quercetin-3-rhamnosylglucoside-7-rhamnoside	757	303	positive	2.4±0.2	5.7±1.4
16	Quercetin-3-rutinoside (rutin)	611	303	positive	14.3±1.0	19.9±1.9
17	Quercetin-3-glucoside*	465	303	positive	6.5±1.5	4.0±0.0
18	Quercetin-3-rhamnoside (quercitrin)	449	303	positive	4.5±0.8	21.6±4.3
19	Quercetin-3-pentoside	435	303	positive	1.2±0.0	7.2±0.2
FLAVAN-3-OLS						
20	Catechin*	291	139	positive	1.9±0.0	5.1±0.4
21	Epicatechin*	291	165	positive	1.0±0.0	10.7±2.4
PHENOLIC ACIDS						

22	Caffeic acid*	179	135	negative	26.2±2.4	8.6±0.6
23	Chlorogenic acid*	353	191	negative	1.1±0.0	0.6±0.0
24	Ellagic acid	301	257	negative	1.7±0.0	22.5±4.2
25	Gallic acid*	169	125	negative	0.2±0.0	91.8±10.4
26	p-hydroxybenzoic acid	137	93	negative	39.4±5.4	29.2±4.7
27	p-coumaric acid*	163	119	negative	4.2±0.0	18.5±2.5
28	Protocatechuic acid	153	109	negative	31.0±4.1	3.94±0.0
29	Vanillic acid*	169	125	positive	24.9±2.6	22.4±4.5

* identification confirmed using authentic standards; nd-not detected. dm-dry mass. Bold fragment ions - major fragment ions