

Table S2: HPLC-DAD and LC-MS parameters used for the analysis of phenolic-enriched extracts of Areaceae seeds

N°	Rt (min)	Phenolic compound	LC-MS parameters			HPLC-DAD parameters				
			m/z precursor ion ^a	m/z fragment ion ^b	Ionization mode	Detection wavelength (nm)	Correlation coefficients (R ²)	LOD (µg/mL)	LOQ (µg/mL)	Recovery rate (%)
<i>Compounds identified by Rt and m/z ions</i>										
1	8.73	Quinic acid	191.05611	127.04020	Negative	280	-	-	-	-
2	9.59	Chelidonic acid	182.99351	139.0037	Negative	280	-	-	-	-
3	10.12	<i>Trans</i> -aconitic acid	179.03498	140.9253	Negative	280	-	-	-	-
4	11.98	Gallic acid	169.01425	125.02319	Negative	280	1.000	0.13	0.25	100.95
5	14.40	Vanillic acid	167.0349	108.02023	Negative	280	0.088	0.20	0.70	89.98
6	19.42	Protocatechuic acid	153.01933	109.0297	Negative	280	0.998	0.18	0.45	97.30
7	26,11	Salicylic acid	137.02442	98.46700	Negative	280	0.988	0.30	0.90	89.98
8	28.02	4-hydroxybenzoic acid	137.02442	93.03325	Negative	280	1.000	0.20	0.40	100.05
9	29.19	DL- <i>p</i> -hydroxyphenyl lactic acid	181.05063	153.07027	Negative	280	1.000	0.30	0.75	102.15
10	30.07	2,4-dihydroxyhydrocinnamic acid	181,05063	137.075356	Negative	280	0.997	0.20	0.65	97.99
11	32.98	3,4-dihydroxyhydrocinnamic acid	163.04007	93.03316	Negative	280	0.996	0.20	0.50	101.85
12	35.62	Chlorogenic acid	355.10236	163.03566	Positive	280	0.999	0.30	0.50	99.80
13	37.92	Caffeic acid	179.03498	135.04429	Negative	320	0.999	0.40	0.90	96.25
14	38.14	(-)-Catechin	291.08631	139.03895	Positive	280	0.989	0.30	0.90	94.78
15	40.89	Syringic acid	198.05337	123.00734	Negative	280	1.000	0.35	0.75	100.10
16	41.98	Dactylifric acid	337.09055	271.02426	Positive	280	-	-	-	-
17	44.55	<i>Trans-p</i> -coumaric acid	163.04007	119.04881	Negative	280	0.998	0.30	0.60	96.15
18	48.30	Ferulic acid	193.05063	134.03643	Negative	280	0.985	0.30	0.50	99.85
19	49.88	Sinapic acid	223.0612	121,02821	Negative	280	0.998	0.20	0.50	98.98
20	53.25	Eriodictyol	287.05611	153,0176	Negative	280	-	-	-	-
21	55.50	Rutin	609.14611	301.03474	Negative	320	0.997	0.20	0.50	98.90
22	58.15	Rosmarinic acid	359.07724	299.0914	Negative	320	0.994	0.40	0.60	97.90
23	64.43	2-Hydroxy-4-methoxy benzoic acid	167.03498	93.03325	Negative	280	0.999	0.20	0.50	100.95
24	67.83	Naringenin	271,0612	153,01779	Negative	280	0.995	0.40	0.50	99.89
25	69.09	Quercetin	301.03538	271.02426	Negative	280	0.994	0.40	0.60	99.20
26	72.79	Luteolin	285.04046	133.02834	Negative	280	0.991	0.30	0.50	100.20
27	76.58	Kaempferol	287.05501	153.0176	Positive	320	0.987	0.20	0.40	96.50
<i>Compounds identified by m/z ions^c</i>										
28		Resveratrol	227.07137	147.09125	Positive	-	-	-	-	-
29		Piceatannol	243.06628	166.1070	Negative	-	-	-	-	-

30	Pinocembrin	255.06628	213.05467	Negative	-	-	-	-	-
31	Genistein	271.06010	254.05581	Positive	-	-	-	-	-
32	Apigenin	271.06010	153.01779	Positive	-	-	-	-	-
33	Phloretin	275.09140	167.03498	Negative	-	-	-	-	-
34	Fisetin	285.04046	135.00725	Negative	-	-	-	-	-
35	Luteolin	285.04046	175.03898	Negative	-	-	-	-	-
36	Sakuranetin	285.07685	-	Negative	-	-	-	-	-
37	Cianidin	287.05501	-	Positive	-	-	-	-	-
38	Epicatechin (-)	291.08631	123.04491	Negative	-	-	-	-	-
39	Delphinidine	303.04993	-	Positive	-	-	-	-	-
40	Epigallocatechin (-)	305.06668	255.9227	Negative	-	-	-	-	-
41	Gallocatechin (-)	307.08123	139.03884	Positive	-	-	-	-	-
42	Petunidine	317.06558	-	Positive	-	-	-	-	-
43	Bilobalide	325.09289	163.11152	Negative	-	-	-	-	-
44	Malvidine	331.08123	315.0499	Positive	-	-	-	-	-
45	Ferulic acid hexoside	355.10346	134.03643	Negative	-	-	-	-	-
46	Piceid (resveratrol-3-O-beta-D-glucopyranoside)	391.13874	-	Positive	-	-	-	-	-
47	Apigenin-6-C-glucoside (isovitexin)	431.09837	311.05586	Negative	-	-	-	-	-
48	Phloridzin	435.12967	273.07598	Negative	-	-	-	-	-
49	Quercetin-3-O-rhamnoside (quercitrin)	447.09328	301.0339	Negative	-	-	-	-	-
50	Isorhamnetin-3-O-glucoside	479.11840	317.0655	Positive	-	-	-	-	-
51	Lithospermic acid	537.10385	475.11801	Negative	-	-	-	-	-
52	Procyanidin B1	577.13515	289.07154	Negative	-	-	-	-	-
53	Kaempferol-3-O-rutinoside	593.15119	285.03973	Negative	-	-	-	-	-
54	Pelargonidine	595.16575	271.0601	Positive	-	-	-	-	-
55	Eriocitrin	595.16684	-	Negative	-	-	-	-	-
56	Hesperidin	609.18249	-	Negative	-	-	-	-	-
57	Delphinidin-3-O-(6-O-p-coumaroyl)-glucoside	611.13953	-	Positive	-	-	-	-	-
58	Isohamnetin-3-O-rutinoside	623.16176	315.0508	Negative	-	-	-	-	-

^a Mass error lower than 5 ppm.

^b Mass error lower than 10 ppm.

^c Phenolic compounds identified by LC-MS.