

**Table S1.** Identification and mean ( $\pm$  standard error) content (mg/kg FW) (n=6) of phenolic compounds in fresh medlar fruits at technological maturity in negative ions with HPLC-MS, MS<sup>2</sup> and MS<sup>3</sup>.

Peak No.*	Phenolic compound	[M-H] <sup>-</sup> (m/z)	MS <sup>2</sup> (m/z)	MS <sup>3</sup> (m/z)	Mean content $\pm$ SE (n=6)
PHENOLIC ACIDS					532.85 $\pm$ 47.16
1	Protocatechuic acid	153	109		2.14 $\pm$ 0.19
2	3-Caffeoylquinic acid	353	191, 179, 135	173, 127, 85	473.74 $\pm$ 41.66
7	4-Caffeoylquinic acid	353	173, 179, 191		11.93 $\pm$ 1.13
6	5-Caffeoylquinic acid	353	191, 179, 173, 135		19.81 $\pm$ 2.62
4	Caffeic acid hexoside	341	179		11.90 $\pm$ 1.29
5	Sinapic acid	223	208, 179, 164	164, 149, 135	0.65 $\pm$ 0.06
5	3- <i>p</i> -Coumaroylquinic acid	337	163		5.44 $\pm$ 0.51
11	4- <i>p</i> -Coumaroylquinic acid	337	173, 163, 155, 137, 191		0.77 $\pm$ 0.118
13	5- <i>p</i> -Coumaroylquinic acid 1	337	191, 173, 163, 155	127, 93, 85	1.40 $\pm$ 0.24
15	5- <i>p</i> -Coumaroylquinic acid 2	337	191, 173, 163,		1.01 0.203
7	3-Feruloylquinic acid 1	367	193,134	149	1.07 $\pm$ 0.101
9	5-Feruloylquinic acid 2	367	191	173, 127, 85	0.54 $\pm$ 0.050
22	Ellagic acid	301	271, 257, 229, 185		2.46 $\pm$ 0.35
FLAVANOLS					375.21 $\pm$ 45.71
5	Catechin	289	245, 205, 179, 261	203, 227	0.72 $\pm$ 0.0066
9	Epicatechin	289	245, 205, 179, 261	203, 227, 161	38.59 $\pm$ 3.60
7	Procyanidin dimer 1	577	451,425,407,289		85.06 $\pm$ 8.08
3	Procyanidin trimer 1	865	577, 451, 425, 407, 289		41.58 $\pm$ 4.24
10	Procyanidin trimer 2	865	577, 451, 425, 407, 289		30.74 $\pm$ 3.30
14	Procyanidin trimer 3	865	577, 451, 425, 407, 289		12.77 $\pm$ 2.31
16	Procyanidin trimer 4	865	577, 451, 425, 407, 289		20.78 $\pm$ 4.70
8	Procyanidin tetramer 1	1153	865,803,425,451,559,289		92.23 $\pm$ 14.71
12	Procyanidin tetramer 2	1153	865,863,425,451,559,287		52.74 $\pm$ 8.06
FLAVONES					1.48 $\pm$ 0.314
26	Apigenin hydroxyhexoside	449	269	225, 183, 151	1.48 $\pm$ 0.314
FLAVANONES					1.65 $\pm$ 0.275
17	Naringenin hexoside 1	433	271	151	0.968 $\pm$ 0.104

18	Naringenin hexoside 2	433	271	151	$0.321 \pm 0.080$
21	Naringenin hexoside 3	433	271	151	$0.36 \pm 0.101$
FLAVONOLS					$16.84 \pm 0.381$
19	Quercetin-3-galactoside	463	301	179, 151	$0.784 \pm 0.116$
20	Quercetin-3-glucoside	463	301	179, 151	$0.722 \pm 0.08$
18	Quercetin-3-rutinoside	609	301	179, 151	$0.558 \pm 0.139$
23	Quercetin-pentoside	433	301	179	$0.17 \pm 0.017$
17	Quercetin dirhamnoside	593	447	301	$0.484 \pm 0.052$
23	Quercetin-rhamnosyl hexoside	609	463	301	$1.01 \pm 0.099$
17	Laricitrin rhamnoside	477	331		$0.807 \pm 0.087$
20	Kaempferol hexoside 1	447	285	257, 229	$0.031 \pm 0.004$
25	Kaempferol hexoside 2	447	285	257, 229	$0.322 \pm 0.044$
27	Dihydrokaempferol hexoside	449	287		$11.44 \pm 1.38$
18	Isorhamnetin hexoside 1	477	315	300, 273	$0.147 \pm 0.036$
24	Isorhamnetin hexoside 2	477	315	300, 273	$0.359 \pm 0.068$

\*Peak No....Peak number on the chromatogram (Figure 1).