

Supplementary Material: Figure S1. Sorting of strawberries at harvest



Supplementary Material: Table S1. Identification of phenolic compounds and the standards used to express them

<i>Positive mode [M]⁺</i>									
Peak No	Anthocyanin	Rt (min)	λ [nm]	[M] ⁺ (m/z)	MS ² (m/z)			Expressed as	Group
1A	cyanidin 3-O-glucoside	9.91	530	449	287			Cyanidin-3-O-glucoside	Anthocyanins
2A	pelargonidin 3-O-glucoside	11.20	530	433	271			Pelargonidin-3-O-glucoside	Anthocyanins
3A	pelargonidin 3-O-rutinoside	11.60	530	579	271, 433			Pelargonidin-3-O-glucoside	Anthocyanins
4A	pelargonidin-3-(6''malonyl)glucoside	15.61	530	519	271, 475, 433			Pelargonidin-3-O-glucoside	Anthocyanins
5A	5-pyranopelargonidin-3-glucoside	16.13	530	501	339			Pelargonidin-3-O-glucoside	Anthocyanins
6A	pelargonidin-3-O-acetylglucoside	16.71	530	475	271			Pelargonidin-3-O-glucoside	Anthocyanins

<i>Negative mode [M-H]⁻</i>									
Peak No	Phenolic compound	Rt (min)	λ [nm]	[M-H] ⁻ (m/z)	MS ² (m/z)	MS ³ (m/z)	MS ⁴ (m/z)	Expressed as	Group
1	<i>p</i> -coumaric hexoside	13.08	280, 350	325	163,145, 119			<i>p</i> -coumaric acid	Hydroxycinnamic acid derivatives
2	<i>p</i> -coumaric hexoside der.	13.60	280, 350	371	325	163, 145, 119		<i>p</i> -coumaric acid	Hydroxycinnamic acid derivatives
3	1-O-feruoylglucose	14.06	350	355	193, 217, 175			ferulic acid	Hydroxycinnamic acid derivatives
4	propelargonidin dimer	15.10	280	561	543, 435,289			procyanidin B1	Flavanol
5	brevifolin carboxylic acid	15.33	280, 350	291	247	219, 191, 203, 175	191	ellagic acid	Hydroxybenzoic acid derivatives
6	ferulic acid hexoside der.	16.14	280, 350	499	455, 293	265, 264, 237	237	ferulic acid	Hydroxycinnamic acid derivatives
7	apigenin-7-O-glucoside	16.58	280	431	269	147, 241, 225		apigenin-7-glucoside	Flavonols
8	ferulic acid hexoside der.	16.80	280, 350	449	355, 269, 193			ferulic acid	Hydroxycinnamic acid derivatives
9	ellagic acid der.	17.99	280	479	301, 300, 433	257, 229, 185		ellagic acid	Hydroxybenzoic acid derivatives
10	galloyl-bis-HHDP-glucose	18.40	280	935	633, 301	257, 229, 185, 284		ellagic acid	Hydroxybenzoic acid derivatives
12	ellagic acid-O-deoxyhexoside	19.33	280, 350	447	301, 300	257, 229		ellagic acid	Hydroxybenzoic acid derivatives
13	tormentic acid	19.63	280	487	441, 339, 293	293, 149, 147	191, 101	ellagic acid	not phenolic compound
14	ellagic acid-O-deoxyhexoside	19.85	350	447	301, 300	257, 229		ellagic acid	Hydroxybenzoic acid derivatives
15	cinnamic acid-3-O-hexoside	21.09	280, 350	355	309, 147, 207, 248			caffeic acid	Hydroxycinnamic acid derivatives
16	isoquercetin	21.35	350	463	301, 300	179, 151		quercetin-3-glucoside	Flavonols
						257, 267, 241, 229, 213,			
17	<i>trans</i> -tiliroside	21.75	350	593	285	197		kaempferol-3-glucoside	Flavonols
18	quercetin-3-O-glucuronide	22.26	280, 350	477	301	179, 151		quercetin-3-glucoside	Flavonols
19	kaempferol-O-hexoside	22.70	350	447	284, 285			kaempferol-3-glucoside	Flavonols
20	quercetin der.	22.98	280	619	499, 521	301, 323	179, 151	quercetin-3-glucoside	Flavonols
21	kaempferol-3-O-glucuronide	23.51	280, 350	461	285	257, 267, 241		kaempferol-3-glucoside	Flavonols
22	caffeoylglucaric isomer der.	24.26	280	417	371			caffeic acid	Hydroxycinnamic acid derivatives
23	isorhamnetin-O-hexoside der.	24.53	350	477	315, 379			isorhamnetin-3-glucoside	Flavonols
24	kaempferol-O-acetylhexoside	25.20	350	489	285	257, 267, 241		kaempferol-3-glucoside	Flavonols

Rt, retention time; der., derivative; HHDP, hexahydroxydiphenoyl; [M-H]⁻, pseudo-molecular ion identified in negative ion mode; [M]⁺, pseudo-molecular ion identified in positive ion mode ion.