

Supplementary Table 2. Concentration ($\mu\text{g/g}$) \pm standard deviation of flavonoids, limonoids, phenolic acids and carboxylic acids found in citrus fruits (n=3).

Flavonoids	Lime				Mandarin				Lemon			
	Flavedo	Albedo	Segments	Juice	Flavedo	Albedo	Segments	Juice	Flavedo	Albedo	Segments	Juice
Apigenin-Glu-Gal	1133 \pm 192	492 \pm 176	647 \pm 88.2	759 \pm 20.5	908 \pm 157	170 \pm 48	151 \pm 42.5	343 \pm 106	597 \pm 402	975 \pm 105	515 \pm 126	659 \pm 85
Diosmetin	1 \pm 0.3	0.7 \pm 1.4	0.6 \pm 0.3	0.4 \pm 0.4	18.3 \pm 1.1	0.3 \pm 0.2			0.4 \pm 0.5	1.7 \pm 0.8	1.1 \pm 0.2	1.5 \pm 0.98
Diosmin	1746 \pm 149	1422 \pm 419	2605 \pm 351	800 \pm 1141	2476 \pm 236	168 \pm 29	111 \pm 11	97 \pm 3	1031 \pm 681	2679 \pm 337	2896 \pm 327	1087 \pm 194
Eriocitrin	756 \pm 69	1568 \pm 322	1742 \pm 426	741 \pm 887	199 \pm 10	424 \pm 53	157 \pm 42	144 \pm 96	194 \pm 52	2178 \pm 230	1956 \pm 26.9	987 \pm 142
Eriodictyol-Glu-Rha-Glu	7.4 \pm 1.7	40.2 \pm 30.3	7.9 \pm 2	0.9 \pm 0.1	8.99 \pm 5.2	23.3 \pm 1.1	10.3 \pm 2	0.9 \pm 0	10.6 \pm 5.2	113 \pm 55.7	6.4 \pm 7.9	8.1 \pm 2.5
Hesperetin	4 \pm 1.4	1.8 \pm 2.8	0.9 \pm 0.3	1 \pm 1.2	0.98 \pm 0.3	4.8 \pm 2	0.6 \pm 1.1	0.3 \pm 0.2	0.2 \pm 0.1	1.4 \pm 0.2	0.6 \pm 0.3	3.1 \pm 0.8
Hesperetin7-O-glucoside	34.7 \pm 3.5	31.2 \pm 12	38.9 \pm 9.5	18.9 \pm 26.8	41.4 \pm 7.7	108 \pm 328	5.5 \pm 3.2	4.9 \pm 4.8	7.6 \pm 5	59.1 \pm 19.9	52.5 \pm 7.5	19.2 \pm 2.4
Hesperidin	929 \pm 361	5907 \pm 418	4525 \pm 552	1483 \pm 1924	5069 \pm 491	8366 \pm 889	4424 \pm 1389	2656 \pm 3985	237 \pm 82	6480 \pm 548	3653 \pm 695	2097 \pm 306
Homoorientin	365 \pm 41.8	17.9 \pm 8.3	38.8 \pm 23.7	16.6 \pm 2.5	206 \pm 16.1	11.2 \pm 0.4	12.6 \pm 0.6	12.8 \pm 3.7	41.3 \pm 31.9	98.5 \pm 29.4	77.1 \pm 18	20.6 \pm 4.03
Isorhamnetin-3-O-rutinoside	1597 \pm 113	650 \pm 224	970 \pm 180	886 \pm 1219	1514 \pm 163	402 \pm 35.9	320 \pm 62.1	291 \pm 171	1314 \pm 694	1339 \pm 215	1704 \pm 250	1970 \pm 353
Limocitrin-HMG-Glu	6775 \pm 914	317 \pm 250	180 \pm 20.8	550 \pm 624	8162 \pm 426	403 \pm 130	153 \pm 51.6	729 \pm 1239	2744 \pm 1615	391 \pm 278	299 \pm 25.8	1342 \pm 25.8
Limocitrin-Rut	444 \pm 64.1	34.1 \pm 22.8	27.8 \pm 5.1	39.4 \pm 32.3	361 \pm 33.8	29.4 \pm 3.2	22.3 \pm 3	41.5 \pm 21.1	217 \pm 129	30.6 \pm 6	45.4 \pm 6.9	104 \pm 16.4
Limocitrol-Glu-HMG	3849 \pm 411	183 \pm 242	25.8 \pm 6	149 \pm 215	958 \pm 60	34.5 \pm 28	17.5 \pm 3.9	63.7 \pm 108	2000 \pm 1243	238 \pm 224	102 \pm 15	320 \pm 18.05
Luteolin	0.4 \pm 0.2	0.4 \pm 0.3	0.7 \pm 0.4	0.3 \pm 0.2	0.6 \pm 0.1	6.7 \pm 3.1	4.3 \pm 3.6	3.5 \pm 5.6		1.3 \pm 0.4	1.2 \pm 0.2	
Luteolin-Rha-Glu	1043 \pm 48.6	589 \pm 155	713 \pm 154	267 \pm 292	1235 \pm 177	266 \pm 529	99.3 \pm 12.7	109 \pm 32.1	460 \pm 294	1423 \pm 180	1192 \pm 216	600 \pm 115
Naringenin	1.4 \pm 0.6	14.3 \pm 2	5.9 \pm 2.9	2.6 \pm 3.7	15.9 \pm 1.9	162 \pm 22.4	43.4 \pm 26.5	53.7 \pm 82.9	0.5 \pm 0.3	10.7 \pm 1	1.2 \pm 0.5	1.6 \pm 0.1
Naringin	203 \pm 9.7	1254 \pm 102	717 \pm 284	202 \pm 151	1106 \pm 111	5369 \pm 352	2797 \pm 1073	2151 \pm 3066	138 \pm 17.1	831 \pm 30	259 \pm 36.5	230 \pm 22.6
Neohesperidin	132 \pm 52.5	676 \pm 1247	261 \pm 27.5	128 \pm 46	365 \pm 38	1659 \pm 3645	269 \pm 56.4	280 \pm 349	224 \pm 57.2	617 \pm 122	207 \pm 33.5	157 \pm 16.5
Orientin	143 \pm 7.8	15.1 \pm 5.3	21.6 \pm 3.1	13.6 \pm 2.7	121 \pm 51	10.2 \pm 0.5	10.4 \pm 1.1	11.7 \pm 1.8	11.2 \pm 1	73.1 \pm 19.3	41.8 \pm 7.9	16.3 \pm 4.8
Quercetin-3-arabinoside	10.9 \pm 1.9	2.7 \pm 0.8	0.9 \pm 0	2.1 \pm 0.8	2.5 \pm 0.4	0.9 \pm 0	0.9 \pm 0	0.9 \pm 0	11 \pm 8	0.9 \pm 0	0.9 \pm 0	1.9 \pm 0.5
Quercetin-3'-glucoside	8.8 \pm 3.1	3.6 \pm 2.4	3.3 \pm 2.5	0.9 \pm 0	41.5 \pm 10.4	4.5 \pm 0.6	2.8 \pm 0.8	0.9 \pm 0	0.9 \pm 0	11.2 \pm 1.6	5.8 \pm 2.4	3.1 \pm 1.8
Rhoifolin	233 \pm 10.1	302 \pm 57.1	227 \pm 63	22.1 \pm 8.5	196 \pm 34.6	334 \pm 24.6	192 \pm 75.3	100 \pm 189	56.3 \pm 18.1	147 \pm 14.4	81 \pm 27	123 \pm 23.9
Rutin	501 \pm 48.6	16.3 \pm 5.9	109 \pm 47.4	108 \pm 155	1280 \pm 144	136 \pm 45.1	238 \pm 131	209 \pm 367	224 \pm 170	26.9 \pm 2.8	188 \pm 38.4	273 \pm 47.1
Tangeritin	82 \pm 28	1.9 \pm 1.2	4.4 \pm 6.1	2.3 \pm 2.5	4243 \pm 359	217 \pm 111	23.1 \pm 27.4	293 \pm 556	32.95 \pm 29.8	0.2 \pm 0.1	0.8 \pm 1.3	2.6 \pm 0.7
Vitexin	367 \pm 22.7	67.3 \pm 25.1	33.7 \pm 4.7	6.9 \pm 9.8	28.7 \pm 3.03	1.7 \pm 0.2	1.4 \pm 1.5	1.5 \pm 1.02	14.3 \pm 15	155.5 \pm 18.7	11.8 \pm 5.8	6.9 \pm 0.9
Vitexin-2"-O-rhamnoside	432 \pm 33.2	1184 \pm 267	1076 \pm 127	237 \pm 235	261.4 \pm 10.4	104 \pm 21.2	99 \pm 6.1	98.6 \pm 6.2	118 \pm 24.7	811 \pm 194	261 \pm 61.3	127 \pm 8.1
<i>Total flavonoids</i>	20801 \pm 1999	14791 \pm 2308	13983 \pm 1934	6439 \pm 6956	28820 \pm 2165	18416 \pm 3218	9165 \pm 3013	7697 \pm 9862	9684 \pm 5531	18694 \pm 2274	13560 \pm 1153	10163 \pm 1331
Limonoids	Lime				Mandarin				Lemon			
	Flavedo	Albedo	Segments	Juice	Flavedo	Albedo	Segments	Juice	Flavedo	Albedo	Segments	Juice
Nomilinicacid		3.3 \pm 2.6	13.4 \pm 22.4					2.8 \pm 4.4		51.5 \pm 6.9	23 \pm 11	14.1 \pm 8.8
Nomilinicacidglucoside		2.4 \pm 3.2	142 \pm 88	9.3 \pm 8.1			15.7 \pm 12.8	67.6 \pm 234		41.3 \pm 13.8	209 \pm 50	284 \pm 49
Obacunone		5.8 \pm 10.2								53.8 \pm 11.8	3.2 \pm 10.3	16.1 \pm 4
21-O-Methyllimonexicacid	43.7 \pm 12.7		105 \pm 87.2	47.1 \pm 63.4	4.5 \pm 1.6	53.7 \pm 17.2	59 \pm 64	138 \pm 344	48.1 \pm 26.8	753 \pm 72.3	260 \pm 136	583 \pm 69.6

Limonin	68.8 ± 20.04	27.2 ± 17.1	493 ± 182	286 ± 309	12.1 ± 1.8	92 ± 23.7	237 ± 169	554 ± 469	175 ± 90.1	1354 ± 155	960 ± 158	1007 ± 111
LimonoicacidD-ringlactone	19.5 ± 1.8	5.1 ± 5.9	22.5 ± 10.7	27.4 ± 2.2	0.5 ± 1.1	6.5 ± 4.5	18.6 ± 17	53.7 ± 104	8 ± 6	42.8 ± 20.7	31.4 ± 3.6	24.1 ± 3.5
Nomilin	11.2 ± 0.4	100 ± 100	154 ± 117	159 ± 261	3.7 ± 0.6	48.9 ± 3.2	86.3 ± 69.3	195 ± 363	101 ± 63.5	1336 ± 108	555 ± 204	536 ± 64.9
<i>Total limonoids</i>	143 ± 32.5	144 ± 125	929 ± 507	529 ± 503	20.9 ± 3.3	201 ± 44.9	417 ± 332	1014 ± 1438	332 ± 186	3632 ± 218	2041 ± 510	2464 ± 287
SimplePhenols	Lime				Mandarin				Lemon			
	Flavedo	Albedo	Segments	Juice	Flavedo	Albedo	Segments	Juice	Flavedo	Albedo	Segments	Juice
Shikimicacid	6.3 ± 0.6	3.9 ± 1.6	4.7 ± 1.3	2.1 ± 0.2	7.8 ± 0.3	29.5 ± 4.6	28.5 ± 7.4	7.5 ± 1.2	6.4 ± 2.8	6.4 ± 2	11.6 ± 1.6	0.7 ± 0.4
2-Coumaricacid	19.5 ± 3.6	15.3 ± 3.9	1.2 ± 1.2	1.7 ± 2			0.3 ± 0.2	1.5 ± 3.3	12.2 ± 5	60.1 ± 34.3	10.4 ± 3.4	17.3 ± 3.6
Pyrogallol	135 ± 17.2		307 ± 30.3	351 ± 77.1	413 ± 27.2	382 ± 14.6	413 ± 4.01	154 ± 100	131 ± 34.1	774 ± 81.6	285 ± 37	282 ± 54.7
Ferulicacid	3.4 ± 0.8	10.1 ± 6.2	8 ± 2.9	22.03 ± 28.1	11.7 ± 2.8	17.1 ± 3.1	10.2 ± 4.7	41 ± 65.6	10.6 ± 6.5	128 ± 33.7	40.7 ± 8.1	159 ± 24.6
4-Hydroxybenzoicacid	0.3 ± 0.3	1.1 ± 0.5	1.3 ± 0.4	2.1 ± 3.1	4.04 ± 0.3	2.8 ± 0.2	1.2 ± 0.9	2.5 ± 1.4	2.9 ± 1.4	58.2 ± 17.4	4.7 ± 0.9	10 ± 1.5
<i>Total phenolic acids</i>	164 ± 12.9	30.4 ± 10.4	322 ± 28.5	379 ± 47.8	437 ± 29	431 ± 9.4	453 ± 12.5	206 ± 152	163 ± 47.5	1027 ± 152	352 ± 37	469 ± 83.8
Carboxylic acids	Lime				Mandarin				Lemon			
	Flavedo	Albedo	Segments	Juice	Flavedo	Albedo	Segments	Juice	Flavedo	Albedo	Segments	Juice
Malicacid	154 ± 2.9	715 ± 363	1260 ± 491	1636 ± 477	145 ± 6.8	542 ± 85.2	818 ± 260	1325 ± 3070	138 ± 3.3	790 ± 103	1433 ± 227	7648 ± 2491
Ascorbicacid	12.5 ± 1.4	117 ± 137	266 ± 131	648 ± 799	133 ± 11.9	135 ± 76.1	556 ± 229	947 ± 1562	13.5 ± 2.1	1027 ± 114	1213 ± 238	1817 ± 280
Citricacid	141 ± 26	6017 ± 3691	12840 ± 2246	10267 ± 3238	161 ± 3.6	176 ± 19.9	3636 ± 1367	11881 ± 30451	147 ± 9.6	7713 ± 2924	15715 ± 2013	51982 ± 11520
<i>Total carboxylic acids</i>	307 ± 30	6849 ± 4168	14367 ± 2216	12551 ± 2945	439 ± 8.2	852 ± 173	5011 ± 1851	14153 ± 34287	298 ± 10.3	9529 ± 2971	18361 ± 2348	61447 ± 14286