

Supplementary Information

Appendix 1. Contents of anthocyanin compounds in the skins of different grape cultivars

Cultivars ^c													
Compounds ^{a,b} ($\mu\text{g MGE/g DW}$)	CS	ML	CB	SH	SY	ZS-1	ZS-2	BP	MA	MI	SN	HS	ZH
Dp-3,5-diglc	nd	nd	656.55 $\pm$	1290.08 $\pm$	440.79 $\pm$	1552.50 $\pm$	1704.53 $\pm$	nd	nd	44.87 $\pm$	2378.51 $\pm$	106.45 $\pm$	742.17 $\pm$
			6.64	17.29	12.95	180.73	8.41			3.60	19.10	9.36	7.50
Cy-3,5-diglc	nd	nd	373.07 $\pm$	224.25 $\pm$	1008.01 $\pm$	601.53 $\pm$	1143.16 $\pm$	nd	nd	nd	392.48 $\pm$	14.46 $\pm$	322.82 $\pm$
			5.02	5.41	15.97	15.45	16.80				10.14	1.56	8.21
Pt-3,5-diglc	nd	nd	630.15 $\pm$	1036.74 $\pm$	600.44 $\pm$	1257.30 $\pm$	1340.57 $\pm$	43.14 $\pm$	33.51 $\pm$	51.34 $\pm$	2734.42 $\pm$	33.73 $\pm$	437.13 $\pm$
			6.41	15.43	17.39	23.38	7.03	5.63	4.33	6.70	20.04	3.89	8.35
Dp-3-glc	123.60 $\pm$	123.18 $\pm$	367.04 $\pm$	277.11 $\pm$	241.39 $\pm$	878.16 $\pm$	2634.50 $\pm$	nd	53.06 $\pm$	25.95 $\pm$	979.97 $\pm$	2719.36 $\pm$	5679.48 $\pm$
	45.26	16.16	13.10	12.49	9.35	17.31	9.96		5.43	2.54	17.11	18.08	8.11
Pg-3,5-diglc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pn-3,5-diglc	nd	nd	335.97 $\pm$	478.22 $\pm$	508.73 $\pm$	766.37 $\pm$	897.11 $\pm$	84.20 $\pm$	37.87 $\pm$	74.78 $\pm$	562.62 $\pm$	41.84 $\pm$	291.08 $\pm$
			9.19	15.97	12.51	15.17	6.45	5.07	3.70	3.44	13.72	5.76	4.02
Mv-3,5-diglc	nd	nd	2150.57 $\pm$	3105.77 $\pm$	1554.45 $\pm$	4034.56 $\pm$	4663.20 $\pm$	794.17 $\pm$	133.01 $\pm$	758.51 $\pm$	4148.34 $\pm$	53.16 $\pm$	2547.98 $\pm$
			17.06	20.08	40.22	37.96	9.27	14.20	7.93	9.26	22.49	6.83	6.55
Cy-3-glc	47.21 $\pm$	48.37 $\pm$	nd	nd	nd	nd	nd	nd	nd	nd	nd	593.03 $\pm$	nd
	3.81	6.86										10.69	
Pt-3-glc	127.97 $\pm$	116.90 $\pm$	78.45 $\pm$	108.71 $\pm$	44.52 $\pm$	522.61 $\pm$	748.27 $\pm$	nd	57.44 $\pm$	nd	194.02 $\pm$	1548.03 $\pm$	2153.69 $\pm$
	28.72	7.36	7.45	8.74	3.68	4.77	5.16		2.87		7.70	19.75	8.30
Pg-3-glc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Cy-3-acglc-5-glc	nd	nd	nd	nd	nd	nd	nd	nd	tr	nd	nd	nd	nd
Pt-3-acglc-5-glc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pn-3-glc	263.83 $\pm$	218.63 $\pm$	13.12 $\pm$	10.33 $\pm$	53.36 $\pm$	43.43 $\pm$	272.50 $\pm$	nd	25.33 $\pm$	19.13 $\pm$	26.09 $\pm$	69.58 $\pm$	268.92 $\pm$
	22.08	27.18	2.03	0.90	7.10	5.42	6.94		1.52	3.39	7.90	4.72	6.60

Appendix 1. Cont.

Compounds ^{a,b} ($\mu\text{g MGE/g DW}$)	Cultivars ^c												
	CS	ML	CB	SH	SY	ZS-1	ZS-2	BP	MA	MI	SN	HS	ZH
Mv-3-glc	2153.27 $\pm$ 35.26	1436.27 $\pm$ 204.25	51.77 $\pm$ 5.36	63.92 $\pm$ 7.32	27.49 $\pm$ 6.11	380.50 $\pm$ 23.47	967.11 $\pm$ 14.98	27.38 $\pm$ 5.31	149.43 $\pm$ 8.28	32.78 $\pm$ 4.78	124.03 $\pm$ 6.25	411.91 $\pm$ 7.56	1458.67 $\pm$ 5.26
Dp-3-cfglc-5-glc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Dp-3-cis-cmglyc-5-glc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pn-3-acglyc-5-glc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Dp-3-acglyc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Mv-3-acglyc-5-glc	nd	nd	nd	nd	nd	nd	nd	7.42 $\pm$ 0.38	tr	24.29 $\pm$ 2.97	7.44 $\pm$ 0.35	nd	nd
Dp-3-trans-cmglyc-5-glc	nd	nd	nd	nd	nd	nd	nd	16.54 $\pm$ 1.86	11.07 $\pm$ 0.94	nd	11.84 $\pm$ 1.39	226.08 $\pm$ 12.51	nd
Cy-3-acglyc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Dp-3-cfglc	nd	nd	nd	nd	nd	nd	nd	nd	6.07 $\pm$ 0.37	nd	nd	65.57 $\pm$ 9.02	nd
Pt-3-cis-cmglyc-5-glc	nd	nd	nd	nd	nd	nd	nd	nd	7.30 $\pm$ 0.52	nd	nd	14.90 $\pm$ 1.95	nd
Pt-3-acglyc	nd	nd	nd	nd	nd	nd	nd	nd	tr	nd	nd	65.58 $\pm$ 8.04	nd
Dp-3-cis-cmglyc	nd	nd	nd	nd	nd	nd	nd	nd	9.86 $\pm$ 0.95	nd	nd	nd	nd
Cy-3-cmglyc-5-glc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	61.05 $\pm$ 5.50	nd
Pt-3-trans-cmglyc-5-glc	nd	nd	nd	nd	nd	nd	nd	40.05 $\pm$ 6.56	22.48 $\pm$ 2.48	nd	nd	177.25 $\pm$ 10.92	nd
Mv-3-cfglc-5-glc	nd	nd	nd	nd	nd	nd	nd	nd	16.37 $\pm$ 1.16	79.97 $\pm$ 8.38	nd	nd	nd

Appendix 1. Cont.

Cultivars ^c Compounds ^{a,b} ($\mu\text{g MGE/g DW}$)													
	CS	ML	CB	SH	SY	ZS-1	ZS-2	BP	MA	MI	SN	HS	ZH
Pt-3-cfglc	nd	nd	nd	nd	nd	nd	nd	nd	11.20 $\pm$ 0.82	nd	nd	nd	nd
Pn-3-cis-cmglyc-5-glyc	nd	nd	nd	nd	nd	nd	nd	nd	tr	nd	nd	nd	nd
Mv-3-cis-cmglyc-5-glyc	nd	nd	nd	nd	nd	nd	nd	19.68 $\pm$ 2.78	24.03 $\pm$ 2.42	18.16 $\pm$ 2.83	nd	nd	nd
Dp-3-trans-cmglyc	nd	nd	nd	nd	nd	nd	nd	nd	67.26 $\pm$ 7.16	tr	13.64 $\pm$ 1.16	1170.68 $\pm$ 14.49	nd
Pn-3-acglyc	60.67 $\pm$ 23.44	51.03 $\pm$ 1.53	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Mv-3-acglyc	607.68 $\pm$ 57.68	414.43 $\pm$ 8.93	nd	nd	nd	nd	nd	nd	18.51 $\pm$ 1.97	nd	nd	30.07 $\pm$ 3.85	nd
Cy-3-cis-cmglyc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pn-3-trans-cmglyc-5-glyc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Mv-3-trans-cmglyc-5-glyc	nd	nd	nd	nd	nd	nd	nd	522.16 $\pm$ 14.01	147.97 $\pm$ 8.64	583.23 $\pm$ 8.37	nd	56.41 $\pm$ 5.06	nd
Pt-3-cis-cmglyc	nd	nd	nd	nd	nd	nd	nd	nd	8.36 $\pm$ 0.58	nd	nd	nd	nd
Mv-3-cfglyc	49.85 $\pm$ 4.30	26.26 $\pm$ 1.88	nd	nd	nd	nd	nd	nd	12.96 $\pm$ 1.40	nd	nd	143.90 $\pm$ 11.86	nd
Cy-3-trans-cmglyc	nd	nd	nd	nd	nd	nd	nd	nd	16.38 $\pm$ 1.31	nd	nd	7.74 $\pm$ 0.45	nd
Pt-trans-cmglyc	69.43 $\pm$ 11.63	75.78 $\pm$ 4.75	nd	nd	nd	nd	nd	nd	75.70 $\pm$ 5.04	9.76 $\pm$ 0.90	nd	344.38 $\pm$ 5.20	nd
Pt-3-cis-cmglyc	nd	nd	nd	nd	nd	nd	nd	nd	tr	nd	nd	nd	nd

Appendix 1. Cont.

Cultivars ^c													
Compounds ^{a,b} (µg MGE/g DW)	CS	ML	CB	SH	SY	ZS-1	ZS-2	BP	MA	MI	SN	HS	ZH
Mv-3-cis-cmglc	nd	nd	nd	nd	nd	nd	nd	nd	22.12 ± 5.10	nd	nd	nd	nd
Pt-3-trans-cmglc	93.57 ± 11.48	102.76 ± 13.74	nd	nd	nd	nd	nd	tr	219.00 ± 9.96	8.38 ±0.96	tr	10.97 ± 0.80	nd
Mv-3-trans-cmglc	566.21 ± 80.04	544.50 ± 74.54	nd	nd	nd	nd	nd	52.69 ± 6.51	6.02 ±0.43	70.23 ± 6.24	7.17 ±0.35	63.23 ± 6.29	nd
Total ^d	4163.28 ± 151.49 ^{e,f}	3158.11 ± 323.03 ^d	4656.70 ± 72.26 ^g	6595.13 ± 103.62 ⁱ	4479.19 ± 125.29 ^{f,g}	10036.96 ± 113.72 ^m	14370.94 ± 16.04 ^o	1607.43 ± 62.31 ^{b,c}	1192.31 ± 85.32 ^{a,b}	1801.37 ± 64.34 ^c	11580.58 ± 127.70 ⁿ	8029.36 ± 184.13 ^k	13901.93 ± 47.90 ^o

Cultivars ^c											
Compounds ^{a,b} (µg MGE/g DW)	ZY	BS	CT	CC	NR	MF	CH	SC	AL	NB	
Dp-3,5-diglc	839.73 ±10.16	644.79 ±6.59	42.63 ±3.68	170.39 ±14.63	nd	89.48 ±4.32	191.60 ±6.88	1038.96 ± 10.72	1318.86 ± 7.03	533.73 ± 15.56	
Cy-3,5-diglc	452.11 ± 9.38	272.07 ±7.73	83.65 ±4.31	207.50 ±14.23	102.58 ±4.44	29.23 ±2.30	61.99 ±3.75	529.53 ±6.72	563.84 ±3.94	2006.81 ± 7.69	
Pt-3,5-diglc	474.79 ±12.39	499.54 ±9.01	22.58 ±3.22	105.44 ±8.48	nd	35.66 ±3.14	326.56 ±12.00	1426.36 ± 17.89	653.75 ±2.57	1137.16 ± 8.40	
Dp-3-glc	505.87 ±12.89	673.31 ±7.50	449.41 ±3.42	1137.04 ± 21.19	141.58 ±1.32	343.65 ±4.97	740.65 ±5.69	2383.92 ± 85.80	nd	nd	
Pg-3,5-diglc	nd	nd	nd	nd	nd	nd	nd	nd	31.59 ±0.92	162.77 ±6.22	
Pn-3,5-diglc	429.82 ± 7.37	568.77 ±6.19	43.61 ±2.29	167.92 ±11.13	nd	36.16 ±5.77	251.64 ±4.40	498.54 ±8.57	190.00 ±5.91	1166.33 ± 7.24	
Mv-3,5-diglc	1497.23 ± 10.12	1277.69 ± 11.36	nd	192.40 ±8.20	nd	268.32 ±8.62	2603.58 ± 13.62	2950.67 ± 14.55	162.06 ±7.26	542.11 ± 10.93	

Appendix 1. Cont.

Cultivars ^c Compounds ^{a,b} ($\mu\text{g MGE/g DW}$)	ZY	BS	CT	CC	NR	MF	CH	SC	AL	NB
Cy-3-glc	nd	40.07 $\pm$ 7.30	643.38 $\pm$ 4.28	608.31 $\pm$ 20.59	741.42 $\pm$ 7.03	nd	nd	nd	nd	nd
Pt-3-glc	96.60 $\pm$ 4.76	231.98 $\pm$ 14.92	57.04 $\pm$ 2.46	252.17 $\pm$ 11.44	6.12 $\pm$ 0.68	404.02 $\pm$ 8.48	891.46 $\pm$ 8.38	1105.79 $\pm$ 1.52	nd	nd
Pg-3-glc	nd	47.45 $\pm$ 2.37	nd	nd	9.50 $\pm$ 0.31	nd	nd	nd	nd	nd
Cy-3-acglc-5-glc	nd	nd	nd	nd	nd	7.08 $\pm$ 0.12	nd	nd	nd	nd
Pt-3-acglc-5-glc	nd	62.39 $\pm$ 0.30	nd	nd	nd	nd	nd	140.13 $\pm$ 0.59	nd	nd
Pn-3-glc	29.55 $\pm$ 2.99	134.85 $\pm$ 4.75	43.21 $\pm$ 1.71	93.29 $\pm$ 9.89	12.70 $\pm$ 0.19	39.56 $\pm$ 6.73	93.16 $\pm$ 8.18	106.07 $\pm$ 5.37	nd	nd
Mv-3-glc	95.39 $\pm$ 8.40	201.12 $\pm$ 5.90	18.39 $\pm$ 0.57	92.96 $\pm$ 9.42	nd	1160.49 $\pm$ 5.49	1634.41 $\pm$ 13.57	488.69 $\pm$ 2.10	nd	nd
Dp-3-cfglc-5-glc	nd	79.81 $\pm$ 6.54	nd	nd	nd	nd	nd	nd	nd	nd
Dp-3-cis-cmglic-5-glc	nd	30.24 $\pm$ 0.84	nd	91.26 $\pm$ 7.58	nd	nd	nd	nd	nd	nd
Pn-3-acglc-5-glc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Dp-3-acglc	nd	73.15 $\pm$ 1.16	nd	nd	nd	34.04 $\pm$ 2.79	52.73 $\pm$ 0.11	169.32 $\pm$ 2.98	nd	nd
Mv-3-acglc-5-glc	nd	60.69 $\pm$ 1.71	nd	nd	nd	40.41 $\pm$ 6.05	27.98 $\pm$ 2.54	91.20 $\pm$ 1.17	nd	nd
Dp-3-trans-cmglic-5-glc	nd	1304.32 $\pm$ 2.52	nd	319.62 $\pm$ 15.03	nd	18.45 $\pm$ 0.28	132.03 $\pm$ 1.27	1666.21 $\pm$ 26.63	nd	nd
Cy-3-acglc	nd	nd	nd	42.15 $\pm$ 6.18	nd	nd	nd	nd	nd	nd
Dp-3-cfglc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pt-3-cis-cmglic-5-glc	nd	55.27 $\pm$ 2.48	nd	8.64 $\pm$ 0.55	nd	nd	26.62 $\pm$ 3.01	nd	nd	nd
Pt-3-acglc	nd	45.40 $\pm$ 0.33	nd	45.33 $\pm$ 2.82	nd	45.55 $\pm$ 2.58	35.50 $\pm$ 0.98	77.05 $\pm$ 6.06	nd	nd
Dp-3-cis-cmglic	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Cy-3-cmglic-5-glc	nd	336.70 $\pm$ 5.85	nd	327.50 $\pm$ 13.16	nd	13.57 $\pm$ 0.86	nd	289.80 $\pm$ 3.93	nd	nd
Pt-3-trans-cmglic-5-glc	nd	691.57 $\pm$ 6.55	nd	132.72 $\pm$ 9.49	nd	46.92 $\pm$ 3.35	192.26 $\pm$ 5.41	973.12 $\pm$ 25.51	nd	nd
Mv-3-cfglc-5-glc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pt-3-cfglc	nd	nd	nd	nd	nd	10.43 $\pm$ 0.45	24.90 $\pm$ 1.38	15.36 $\pm$ 0.65	nd	nd
Pn-3-cis-cmglic-5-glc	nd	21.84 $\pm$ 1.05	nd	11.97 $\pm$ 0.49	nd	nd	nd	nd	nd	nd
Mv-3-cis-cmglic-5-glc	nd	nd	nd	nd	nd	nd	nd	48.24 $\pm$ 3.68	nd	nd
Dp-3-trans-cmglic	nd	462.59 $\pm$ 3.95	10.15 $\pm$ 0.35	798.26 $\pm$ 24.93	7.03 $\pm$ 0.55	38.37 $\pm$ 6.21	232.28 $\pm$ 7.65	1456.98 $\pm$ 3.10	nd	nd
Pn-3-acglc	nd	nd	nd	92.07 $\pm$ 8.73	nd	10.65 $\pm$ 0.36	nd	nd	nd	nd
Mv-3-acglc	nd	33.86 $\pm$ 3.21	nd	15.90 $\pm$ 1.45	nd	114.01 $\pm$ 4.30	29.44 $\pm$ 3.35	15.20 $\pm$ 0.64	nd	nd

Appendix 1. Cont.

Compounds ^{a,b} \ Cultivars ^c	ZY	BS	CT	CC	NR	MF	CH	SC	AL	NB
($\mu\text{g MGE/g DW}$)										
Cy-3-cis-cmglc	nd	nd	nd	13.49 $\pm$ 0.91	7.88 $\pm$ 0.49	nd	nd	nd	nd	nd
Pn-3-trans-cmglc-5-glc	nd	328.97 $\pm$ 8.15	nd	90.20 $\pm$ 6.09	nd	nd	nd	nd	nd	nd
Mv-3-trans-cmglc-5-glc	nd	391.45 $\pm$ 6.03	nd	103.67 $\pm$ 8.83	nd	45.62 $\pm$ 1.12	297.72 $\pm$ 4.43	702.93 $\pm$ 7.93	nd	nd
Pt-3-cis-cmglc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Mv-3-cfglc	nd	104.37 $\pm$ 6.40	36.06 $\pm$ 2.43	454.79 $\pm$ 4.92	36.82 $\pm$ 2.28	10.99 $\pm$ 0.82	26.38 $\pm$ 2.47	157.78 $\pm$ 5.26	nd	nd
Cy-3-trans-cmglc	nd	nd	nd	nd	nd	20.85 $\pm$ 1.17	39.02 $\pm$ 6.10	nd	nd	nd
Pt-trans-cmglc	nd	92.60 $\pm$ 5.10	nd	132.89 $\pm$ 9.72	nd	28.41 $\pm$ 2.09	200.85 $\pm$ 8.00	346.48 $\pm$ 6.48	nd	nd
Pt-3-cis-cmglc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Mv-3-cis-cmglc	nd	nd	nd	nd	nd	nd	13.12 $\pm$ 1.31	nd	nd	nd
Pt-3-trans-cmglc	nd	20.70 $\pm$ 0.58	6.92 $\pm$ 0.25	37.45 $\pm$ 4.89	nd	7.98 $\pm$ 0.39	11.74 $\pm$ 1.14	13.14 $\pm$ 0.23	nd	nd
Mv-3-trans-cmglc	nd	55.25 $\pm$ 0.39	tr	47.69 $\pm$ 4.24	nd	49.41 $\pm$ 4.95	313.01 $\pm$ 13.27	149.52 $\pm$ 8.51	nd	nd
Total ^d	4421.08 $\pm$ 78.47 ^{f,g}	8842.82 $\pm$ 18.65 ⁱ	1457.04 $\pm$ 13.47 ^{a,b,c}	5792.99 $\pm$ 258.15 ^h	1065.63 $\pm$ 12.84 ^a	2949.30 $\pm$ 87.68 ^d	8450.64 $\pm$ 20.74 ^{k,l}	16840.99 $\pm$ 60.59 ^p	2920.11 $\pm$ 25.80 ^d	5548.91 $\pm$ 6.36 ^h

nd means not detected. tr means trace. Abbreviations: dp, delphinidin; cy, cyanidin; pt, petunidin; pg, pelargonidin; pn, peonidin; mv, malvidin; glc, glucoside; diglc, diglucoside; acglc, (6-acetyl)-glucoside; cfglc, (6-caffeoyl)-glucoside; cmglc, (6-coumaroyl)-glucoside; ^a Each number represents an anthocyanin compound, see appendix 2; ^b Values are means of duplicate determination $\pm$ S.D.; ^c Each abbreviation represents a cultivar, see Table 1; ^d Different letters in each column are significantly different at 0.05 level from ANOVA.

Appendix 2. Contents of non-anthocyanin phenolic compounds in the skins of different grape cultivars.

Cultivars ^c Compounds ^{a,b}	CS	ML	CB	SH	SY	ZS-1	ZS-2	BP	MA	MI	SN	HS	ZH
Flavonols and dihydroflavonols ($\mu\text{g QE/g DW}$)													
Dk-3-glc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
K-3-hex	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Q-3-hex	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	11.89 $\pm$ 2.64
M-3-gcn	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	26.94 $\pm$ 1.73	nd	nd
Dq-3-hex	nd	29.37 $\pm$ 1.21	13.82 $\pm$ 0.20	nd	nd	nd	nd	nd	nd	10.85 $\pm$ 1.37	nd	nd	17.27 $\pm$ 2.63
M-3-gal	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	55.95 $\pm$ 3.81	nd	14.63 $\pm$ 1.74
M-3-glc	19.78 $\pm$ 3.84	20.96 $\pm$ 10.73	13.96 $\pm$ 0.59	41.44 $\pm$ 0.24	nd	73.05 $\pm$ 1.57	14.10 $\pm$ 0.14	nd	23.91 $\pm$ 0.16	nd	88.99 $\pm$ 5.09	29.31 $\pm$ 4.31	31.51 $\pm$ 1.70
M-3-rha	nd	nd	18.30 $\pm$ 0.73	nd	nd	nd	nd	nd	nd	nd	38.61 $\pm$ 10.04	nd	nd
Q	nd	nd	147.55 $\pm$ 7.59	40.84 $\pm$ 0.79	nd	43.15 $\pm$ 1.31	23.99 $\pm$ 0.13	nd	nd	nd	70.67 $\pm$ 11.86	nd	129.12 $\pm$ 2.72
Dq-3-rha	30.23 $\pm$ 0.33	76.70 $\pm$ 0.92	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Q-3-gal	26.06 $\pm$ 0.08	11.94 $\pm$ 4.37	16.54 $\pm$ 0.37	12.94 $\pm$ 0.44	nd	nd	nd	nd	nd	nd	39.09 $\pm$ 4.55	nd	nd
Q-3-gcn	46.33 $\pm$ 2.70	33.32 $\pm$ 3.63	108.79 $\pm$ 2.95	26.50 $\pm$ 0.10	48.08 $\pm$ 1.44	37.39 $\pm$ 0.02	36.90 $\pm$ 0.44	16.13 $\pm$ 0.52	166.95 $\pm$ 4.89	11.84 $\pm$ 0.26	89.79 $\pm$ 6.91	141.04 $\pm$ 22.05	37.42 $\pm$ 2.58
Q-3-glc	115.06 $\pm$ 1.81	56.66 $\pm$ 2.07	120.00 $\pm$ 1.91	77.66 $\pm$ 0.38	19.00 $\pm$ 1.59	38.68 $\pm$ 0.61	38.30 $\pm$ 0.10	20.53 $\pm$ 0.64	32.56 $\pm$ 0.27	16.92 $\pm$ 0.11	155.21 $\pm$ 5.57	25.75 $\pm$ 5.19	39.35 $\pm$ 4.19
Q-3-rut	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	18.58 $\pm$ 2.80	223.00 $\pm$ 8.15	nd
Q-3-rha	nd	nd	nd	nd	nd	nd	nd	271.28 $\pm$ 1.64	26.60 $\pm$ 0.97	178.80 $\pm$ 3.71	528.65 $\pm$ 23.88	nd	nd

Appendix 2. Cont.

Cultivars ^c Compounds ^{a,b}	CS	ML	CB	SH	SY	ZS-1	ZS-2	BP	MA	MI	SN	HS	ZH
Flavonols and dihydroflavonols (µg QE/g DW)													
L-3-glc	16.55 ± 0.19	23.53 ± 0.93	nd	nd	nd	nd	nd	9.99 ± 0.26	nd	8.81 ± 0.35	15.87 ± 4.80	19.02 ± 1.85	nd
K-3-gal	13.67 ± 1.57	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Q-3-xyl	nd	nd	nd	nd	nd	nd	nd	14.79 ± 0.02	47.22 ± 1.22	12.41 ± 1.33	38.01 ± 6.00	nd	41.65 ± 2.30
I-3-xyl	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	24.03 ± 6.27	nd	nd
K-3-rha	nd	nd	nd	nd	nd	nd	nd	tr	16.34 ± 0.48	nd	57.18 ± 9.97	nd	nd
Dk-3-rha	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	26.68 ± 6.58	nd	nd
K-3-glc	102.68 ± 26.00	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
L-3-acglc	nd	nd	nd	nd	nd	nd	nd	nd	49.37 ± 4.76	nd	62.68 ± 9.77	nd	24.40 ± 0.73
I-3-glc	171.53 ± 35.68	nd	nd	nd	nd	nd	nd	13.09 ± 0.71	nd	13.16 ± 2.98	21.23 ± 3.42	nd	12.22 ± 0.62
I-3-rha	nd	nd	nd	nd	nd	nd	nd	nd	10.68 ± 0.12	nd	nd	nd	nd
S-3-glc	69.85 ± 23.60	63.35 ± 24.11	nd	nd	nd	nd	nd	46.55 ± 3.25	12.10 ± 0.67	63.58 ± 8.26	nd	nd	nd
Dq-3-acglc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
K-3-rut	nd	nd	nd	nd	nd	nd	nd	nd	nd	9.88 ± 0.31	nd	nd	nd
Total ^d	611.75 ± 39.84 ^{g,h,i}	315.83 ± 41.98 ^{b,c,d}	438.97 ± 13.61 ^{e,f,g,h}	199.3 ± 1.75 ^{a,b,c,d}	67.08 ± 3.03 ^a	192.27 ± 2.26 ^{a,b,c,d}	113.29 ± 0.36 ^{a,b}	392.36 ± 0.88 ^{d,e,f,g}	385.74 ± 11.02 ^{d,e,f}	326.26 ± 18.68 ^{b,c,d,e}	1358.17 ± 123.03 ^k	613.97 ± 48.46 ^{h,i}	359.46 ± 15.11 ^{c,d,e}

Appendix 2. Cont.

Cultivars ^c Compounds ^{a,b}	CS	ML	CB	SH	SY	ZS-1	ZS-2	BP	MA	MI	SN	HS	ZH
Flavan-3-ols (µg CE/g DW)													
Gallocatechin	nd	9.64 ± 0.08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Epigallocatechin	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Catechin	9.90 ± 0.30	34.13 ± 1.69	nd	nd	nd	nd	nd	nd	nd	nd	22.42 ± 1.22	nd	nd
Epicatechin	nd	13.09 ± 0.16	nd	nd	nd	nd	nd	16.46 ± 1.14	16.08 ± 7.05	14.30 ± 4.83	28.66 ± 6.40	nd	nd
Procyanidin dimer 1	50.99 ± 1.27	73.11 ± 27.48	381.80 ± 12.38	nd	nd	nd	nd	nd	nd	nd	18.88 ± 2.55	562.73 ± 308.23	nd
Procyanidin dimer 2	nd	12.12 ± 0.13	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Procyanidin dimer 3	nd	58.22 ± 22.25	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Procyanidin trimer	nd	9.53 ± 0.85	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Total ^d	60.89 ± 0.97 ^a	209.84 ± 47.39 ^{a,b,c,d}	381.80 ± 12.38 ^{c,d,e}	nd	nd	nd	nd	16.46 ± 1.14 ^a	16.08 ± 7.05 ^a	14.30 ± 4.83 ^a	69.96 ± 2.62 ^a	562.73 ± 308.23 ^e	nd
Cinnamic acids (µg CAE/g DW)													
Chlorogenic acid	1.33 ± 0.00	nd	8.16 ± 0.08	10.16 ± 0.45	10.00 ± 0.28	8.17 ± 0.15	8.04 ± 0.14	7.43 ± 0.03	10.04 ± 0.03	6.09 ± 0.03	nd	9.82 ± 0.86	7.67 ± 0.16
Caffeic acid	nd	nd	nd	nd	10.36 ± 0.33	nd	nd	nd	nd	nd	nd	nd	nd
Caftaric acid	nd	nd	16.40 ± 0.99	nd	nd	nd	nd	22.65 ± 0.12	24.16 ± 0.07	13.86 ± 0.10	nd	nd	nd

Appendix 2. Cont.

Cultivars ^c Compounds ^{a,b}	CS	ML	CB	SH	SY	ZS-1	ZS-2	BP	MA	MI	SN	HS	ZH
Cinnamic acids (µg CAE/g DW)													
<i>p</i> -Coumaric acid	nd	nd	nd	nd	nd	nd	nd	nd	11.45 ± 0.17	3.70 ± 0.22	nd	9.85 ± 1.38	nd
Ferulic acid	nd	nd	nd	nd	58.44 ± 2.62	nd	19.97 ± 0.06	54.78 ± 3.05	nd	5.02 ± 2.35	nd	nd	17.30 ± 0.18
HE of caffeic acid	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
HE of <i>p</i> -coumaric acid	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	16.36 ± 1.85	nd	nd
HE of ferulic acid	nd	tr	nd	nd	nd	nd	0.81 ± 0.35	131.33 ± 24.04	10.29 ± 0.38	4.06 ± 3.01	6.31 ± 0.77	10.26 ± 2.15	14.38 ± 1.46
Fertaric acid	nd	nd	85.17 ± 3.42	60.37 ± 3.38	nd	29.92 ± 0.61	33.08 ± 0.82	nd	118.19 ± 1.87	196.63 ± 8.67	nd	25.11 ± 4.88	10.49 ± 2.63
Total ^d	1.33 ± 0.00 ^a	tr	109.73 ± 2.51 ^g	70.53 ± 2.93 ^{e,f,g}	78.80 ± 2.57 ^{f,g}	38.08 ± 0.46 ^{a,b,c,d,e}	61.90 ± 0.97 ^{d,e,f}	216.19 ± 27.17 ⁱ	174.13 ± 1.29 ^h	229.37 ± 7.66 ⁱ	22.68 ± 1.07 ^{a,b,c,d}	55.04 ± 0.49 ^{c,d,e,f}	49.83 ± 1.18 ^{b,c,d,e,f}
Benzoic acids (µg GAE/g DW)													
HE of protocatechuic acid	0.91 ± 0.08	nd	6.65 ± 0.93	8.66 ± 0.57	6.36 ± 0.10	3.10 ± 1.54	7.26 ± 1.11	5.72 ± 1.43	7.09 ± 0.11	5.24 ± 0.37	12.59 ± 0.81	nd	3.02 ± 1.72
protocatechuic acid	nd	nd	nd	nd	1.56 ± 0.14	nd	nd	nd	nd	nd	nd	nd	nd
<i>p</i> -Hydroxybenzoic acid	nd	nd	nd	nd	nd	nd	nd	3.70 ± 0.03	nd	3.40 ± 0.04	nd	nd	nd
Ethyl gallate	nd	nd	nd	nd	nd	nd	nd	nd	nd	13.05 ± 0.26	nd	nd	nd
HE of vanillic acid	7.73 ± 0.38	10.17 ± 1.95	2.84 ± 0.18	6.64 ± 0.58	nd	3.43 ± 0.17	4.28 ± 2.04	3.45 ± 3.33	nd	nd	15.27 ± 2.09	7.32 ± 3.25	11.17 ± 2.26
Total ^d	8.64 ± 0.30 ^{b,c,d,e,f}	10.17 ± 1.95 ^{b,c,d,e,f,g}	9.49 ± 0.74 ^{b,c,d,e,f,g}	15.30 ± 0.01 ^{f,g,h,i,j}	7.92 ± 0.03 ^{b,c,d,e}	6.53 ± 1.38 ^{a,b,c}	11.54 ± 0.93 ^{c,d,e,f,g}	12.86 ± 1.93 ^{c,d,e,f,g}	7.09 ± 0.11 ^{a,b,c}	21.70 ± 0.60 ^{j,k,l}	27.85 ± 1.28 ^l	7.32 ± 3.25 ^{a,b,c,d}	14.19 ± 0.54 ^{d,e,f,g,h}

Appendix 2. Cont.

Cultivars ^c Compounds ^{a,b}	CS	ML	CB	SH	SY	ZS-1	ZS-2	BP	MA	MI	SN	HS	ZH
Ellagic acids (µg EAE/g DW)													
Ellagic acid-rha	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
HHDP-galloylglucose	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
HHDP-glucose	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ellagitannin 1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ellagitannin 2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Total ^d	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Stilbenes (µg RE/g DW)													
<i>trans</i> -Piceid	tr	5.01 ± 0.71	nd	nd	tr	tr	nd	nd	nd	8.67 ± 3.16	nd	3.64 ± 0.05	3.64 ± 0.05
<i>trans</i> -Resveratrol	26.83 ± 0.86	162.05 ± 6.49	nd	3.79 ± 0.45	nd	nd	2.83 ± 0.37	22.37 ± 0.80	2.17 ± 0.14	67.09 ± 2.44	27.31 ± 5.15	tr	tr
Total ^d	26.83 ± 0.86 ^c	167.06 ± 7.21 ^e	tr	nd	3.79 ± 0.45 ^a	tr	tr	2.83 ± 0.37 ^a	22.37 ± 0.80 ^{bc}	2.17 ± 0.14 ^a	75.76 ± 0.72 ^d	27.31 ± 5.15 ^c	3.64 ± 0.05 ^a
Flavonols (µg QE/g DW)													
Dk-3-glc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	133.35 ± 11.36	
K-3-hex	nd	nd	47.07 ± 12.57	29.68 ± 1.68	53.11 ± 0.78	nd	nd	nd	nd	nd	nd	nd	
Q-3-hex	nd	nd	21.36 ± 0.24	18.10 ± 0.59	28.70 ± 0.71	nd	16.05 ± 1.82	nd	43.20 ± 4.08	18.40 ± 2.46			
M-3-gcn	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Dq-3-hex	nd	nd	12.49 ± 5.64	nd	12.80 ± 2.71	nd	nd	8.87 ± 0.47	nd	nd	nd	nd	
M-3-gal	nd	11.34 ± 2.65	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
M-3-glc	47.20 ± 1.42	12.52 ± 2.79	nd	19.58 ± 0.95	nd	nd	20.50 ± 3.01	18.94 ± 2.53	30.12 ± 15.98	38.50 ± 17.82			
M-3-rha	nd	nd	nd	nd	37.72 ± 2.05	nd	nd	nd	238.31 ± 23.13	193.38 ± 40.61			

Appendix 2. Cont.

Cultivars ^c Compounds ^{ab}	ZY	BS	CT	CC	NR	MF	CH	SC	AL	NB
Flavonols (µg QE/g DW)										
Q	34.02 ± 1.58	95.29 ± 2.18	nd	nd	nd	69.21 ± 5.41	39.19 ± 0.65	nd	557.43 ± 44.70	452.60 ± 60.33
Dq-3-rha	nd	nd	9.41 ± 0.07	69.93 ± 3.29	nd	nd	nd	nd	nd	nd
Q-3-gal	19.49 ± 2.15	16.40 ± 1.09	nd	nd	nd	nd	19.46 ± 0.94	nd	nd	nd
Q-3-gcn	54.81 ± 3.16	192.28 ± 6.81	88.97 ± 2.60	122.82 ± 5.75	212.12 ± 5.05	35.54 ± 5.02	272.54 ± 0.89	55.90 ± 2.76	nd	nd
Q-3-glc	85.48 ± 5.37	131.29 ± 8.46	68.01 ± 0.36	111.25 ± 4.98	369.49 ± 17.69	7.71 ± 0.66	166.18 ± 0.78	35.54 ± 4.27	nd	nd
Q-3-rut	nd	19.51 ± 4.48	nd	278.92 ± 35.91	nd	nd	18.03 ± 0.15	100.95 ± 4.11	nd	nd
Q-3-rha	nd	30.65 ± 0.20	nd	57.43 ± 6.93	176.20 ± 15.77	nd	15.13 ± 1.97	nd	630.48 ± 61.26	675.03 ± 77.85
L-3-glc	nd	13.21 ± 3.69	nd	nd	nd	nd	12.96 ± 0.67	11.26 ± 1.98	nd	nd
K-3-gal	nd	nd	nd	nd	nd	nd	nd	nd	nd	26.66 ± 18.68
Q-3-xyl	nd	33.98 ± 4.14	nd	nd	nd	26.25 ± 1.32	16.25 ± 6.23	nd	240.55 ± 39.02	247.53 ± 0.17
I-3-xyl	nd	nd	nd	nd	40.20 ± 1.25	nd	nd	nd	nd	28.30 ± 26.95
K-3-rha	nd	nd	nd	nd	nd	nd	nd	nd	64.65 ± 4.70	63.09 ± 2.39
Dk-3-rha	nd	nd	nd	17.70 ± 2.59	nd	nd	nd	nd	nd	nd
K-3-glc	nd	nd	nd	nd	nd	nd	nd	nd	26.09 ± 2.43	15.69 ± 1.27
L-3-acglc	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
I-3-glc	nd	nd	12.07 ± 0.45	nd	33.31 ± 2.94	nd	nd	nd	nd	nd
I-3-rha	nd	nd	nd	nd	nd	nd	nd	nd	26.16 ± 7.08	nd
S-3-glc	nd	27.28 ± 1.74	17.72 ± 3.58	nd	nd	nd	15.97 ± 0.85	nd	nd	nd
Dq-3-acglc	nd	23.57 ± 3.37	nd	nd	nd	nd	nd	44.81 ± 2.69	nd	nd

Appendix 2. Cont.

Cultivars ^c Compounds ^{ab}	ZY	BS	CT	CC	NR	MF	CH	SC	AL	NB
Flavonols (µg QE/g DW)										
K-3-rut	nd	19.51 ± 4.48	nd	475.01 ± 22.17	61.20 ± 0.52	nd	nd	100.54 ± 2.66	nd	nd
Total ^d	241.00 ± 13.68 ^{a,b,c,d,e}	626.81 ± 25.98 ^{h,i}	277.09 ± 13.61 ^{a,b,c,d,e}	1200.41 ± 34.15 ^{j,k}	1024.86 ± 47.31 ^j	138.70 ± 12.40 ^{a,b,c}	612.25 ± 6.95 ^{g,h,i}	376.81 ± 10.77 ^{d,e,f}	1856.99 ± 202.38 ^l	1892.53 ± 53.60 ^l
Flavan-3-ols (µg CE/g DW)										
Gallocatechin	nd	nd	nd	nd	nd	nd	nd	nd	15.34 ± 0.21	20.72 ± 0.80
Epigallocatechin	nd	nd	nd	nd	nd	nd	nd	nd	21.05 ± 2.07	33.45 ± 3.21
Catechin	nd	nd	nd	25.68 ± 0.09	nd	15.85 ± 0.34	25.90 ± 5.36	nd	65.71 ± 2.95	nd
Epicatechin	nd	nd	nd	nd	nd	nd	nd	nd	163.53 ± 16.15	284.03 ± 34.18
Procyanidin dimer 1	nd	6.45 ± 0.64	9.66 ± 1.64	155.58 ± 3.39	1198.00 ± 25.56	nd	154.99 ± 10.24	55.80 ± 14.96	31.55 ± 3.06	113.28 ± 10.79
Procyanidin dimer 2	nd	nd	nd	nd	nd	nd	nd	nd	53.44 ± 12.22	nd
Procyanidin dimer 3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Procyanidin trimer	nd	nd	nd	nd	45.67 ± 2.98	nd	nd	nd	nd	nd
Total ^d	nd	6.45 ± 0.64 ^a	9.66 ± 1.64 ^a	181.26 ± 3.30 ^{a,b,c}	1243.67 ± 28.54 ^f	15.85 ± 0.34 ^a	180.89 ± 15.60 ^{a,b,c}	55.80 ± 14.96 ^a	350.62 ± 36.67 ^{b,c,d,e}	451.48 ± 48.98 ^{d,e}
Cinnamic acids (µg CAE/g DW)										
Chlorogenic acid	tr	7.66 ± 0.16	0.38 ± 0.02	8.85 ± 0.09	7.64 ± 0.42	0.71 ± 0.32	7.09 ± 0.02	6.80 ± 0.00	7.89 ± 0.11	8.26 ± 0.12
Caffeic acid	nd	nd	0.95 ± 0.07	5.55 ± 0.01	nd	nd	nd	nd	nd	nd
Caftaric acid	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
p-Coumaric acid	nd	nd	nd	8.99 ± 0.10	nd	nd	23.75 ± 3.13	nd	14.80 ± 2.35	nd
Ferulic acid	36.13 ± 0.94	32.58 ± 1.90	17.02 ± 3.17	nd	nd	7.87 ± 1.07	nd	7.53 ± 5.54	nd	nd
HE of caffeic acid	nd	nd	nd	nd	nd	nd	nd	nd	35.29 ± 4.58	nd
HE of p-coumaric acid	nd	nd	nd	nd	nd	nd	nd	9.79 ± 2.45	nd	8.29 ± 0.72
HE of ferulic acid	183.29 ± 39.52	9.19 ± 0.81	10.36 ± 0.34	26.55 ± 1.46	6.64 ± 1.02	1.25 ± 0.03	2.23 ± 0.34	8.97 ± 3.34	nd	8.34 ± 1.68

Appendix 2. Cont.

Cultivars ^c Compounds ^{ab}	ZY	BS	CT	CC	NR	MF	CH	SC	AL	NB
Cinnamic acids (µg CAE/g DW)										
Fertaric acid	nd	nd	nd	27.86 ± 1.32	6.15 ± 0.44	3.47 ± 0.58	18.15 ± 0.10	nd	nd	nd
Total ^d	219.42 ± 38.59 ⁱ	49.43 ± 2.86 ^{b,c,d,e,f}	28.72 ± 2.88 ^{a,b,c,d}	77.80 ± 0.13 ^{f,g}	20.43 ± 1.01 ^{a,b,c}	13.29 ± 0.14 ^{a,b}	51.22 ± 3.59 ^{b,c,d,e,f}	33.08 ± 6.43 ^{a,b,c,d,e}	57.98 ± 6.81 ^{c,d,e,f}	24.89 ± 2.53 ^{a,b,c,d}
Benzoic acids (µg GAE/g DW)										
HE of protocatechuic acid	11.51 ± 0.22	0.19 ± 0.02	tr	nd	nd	nd	8.08 ± 0.03	5.05 ± 0.35	7.07 ± 0.73	11.34 ± 1.47
protocatechuic acid	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
p-Hydroxybenzoic acid	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ethyl gallate	nd	3.78 ± 1.20	nd	nd	nd	6.08 ± 0.01	nd	4.57 ± 2.16	nd	nd
HE of vanillic acid	4.39 ± 0.57	10.28 ± 2.19	0.58 ± 0.33	12.73 ± 0.14	3.43 ± 0.92	tr	6.30 ± 0.10	4.80 ± 2.54	6.96 ± 0.18	9.75 ± 2.08
Total ^d	15.90 ± 0.35 ^{g,h,i,j}	14.25 ± 3.41 ^{e,f,g,h,i}	0.58 ± 0.33 ^a	12.73 ± 0.14 ^{c,d,e,f,g}	3.43 ± 0.92 ^{a,b}	6.08 ± 0.01 ^{a,b,c}	14.39 ± 0.13 ^{e,f,g,h,i}	14.42 ± 4.35 ^{e,f,g,h,i}	14.03 ± 0.91 ^{d,e,f,g,h}	21.09 ± 3.56 ^{i,j,k,l}
Ellagic acids (µg EAE/g DW)										
Ellagic acid-rha	nd	nd	nd	nd	nd	nd	nd	nd	32.97 ± 9.04	nd
HHDP-galloylglucose	nd	nd	nd	nd	nd	nd	nd	nd	95.42 ± 3.21	184.91 ± 16.89
HHDP-glucose	nd	nd	nd	nd	nd	nd	nd	nd	nd	10.82 ± 1.47
Ellagitannin 1	nd	nd	nd	nd	nd	nd	nd	nd	93.45 ± 33.69	92.37 ± 35.32
Ellagitannin 2	nd	nd	nd	nd	nd	nd	nd	nd	303.32 ± 86.53	359.59 ± 98.08
Total ^d	nd	nd	nd	nd	nd	nd	nd	nd	525.16 ± 123.42 ^a	647.68 ± 148.81 ^b
Stilbenes (µg RE/g DW)										
trans-Piceid	nd	nd	nd	nd	nd	nd	nd	nd	tr	56.41 ± 8.18
trans-Resveratrol	tr	nd	nd	nd	nd	tr	tr	nd	12.15 ± 4.17	15.26 ± 4.33
Total ^b	nd	tr	nd	nd	nd	tr	tr	nd	12.15 ± 4.17 ^{a,b}	71.67 ± 12.51 ^d

nd means not detected. tr means trace. Q, quercetin; K, kaempferol; Ir, isorhamnetin; L, laricitrin; S, syringetin; Dq, dihydroquercetin; Dk, dihydrokaempferol; gal, galactoside; gc, glucuronide; rha, rhamnoside; cagl, (6-caffeoyl)-glucoside; hex, hexoside; xyl, xyloside; rut, rutinoside. HE, hexose ester; rha, rhamnoside; ^a Numbers of each phenolic group represents non-anthocyanin phenolic compounds, see appendix 4; ^b Values are means of duplicate determination ± S.D.; ^c Each abbreviation represents a cultivar, see Table 1; ^d Different letters in each column are significantly different at 0.05 level from ANOVA.