

SUPPLEMENTARY DATA

Table S1. Phenolic composition of GP skins and seeds—2021 vintage.

	SYR skins	All skins	GRE skins	SYR seeds	ALL seeds	GRE seeds
<u>Flavan-3-ols procyanidins</u>						
catechin	138.7 ± 0.4	240.9 ± 40.6	55.8 ± 4.9	224.9 ± 23.8	230.5 ± 32.1	1278.9 ± 50.7
epicatechin	124.5 ± 4.7	203.7 ± 47.2	26.1 ± 0.8	225.8 ± 33.7	163.1 ± 31.8	1310.9 ± 48.6
epicatechin gallate	20.7 ± 0.4	7.3 ± 1.7	12.6 ± 1.6	33.1 ± 4.9	11.3 ± 2.8	165.4 ± 7.2
procyanidin B1	22.3 ± 1.0	36.2 ± 10.9	3.4 ± 0.5	30.3 ± 6.8	20.0 ± 4.7	171.0 ± 1.7
procyanidin B2	25.2 ± 1.4	66.6 ± 18.2	3.8 ± 0.0	29.3 ± 8.7	25.7 ± 8.1	252.3 ± 5.2
procyanidin B3	13.1 ± 1.3	37.4 ± 11.0	2.4 ± 0.2	16.1 ± 5.5	13.3 ± 2.7	116.6 ± 11.2
procyanidin B4	10.2 ± 0.3	30.9 ± 7.2	1.3 ± 0.0	10.2 ± 0.8	14.4 ± 1.2	69.2 ± 7.5
procyanidin C1	2.9 ± 0.1	11.7 ± 2.6	0.8 ± 0.1	5.7 ± 1.0	4.1 ± 1.8	38.6 ± 9.9
Σ flavan-3-ols/procyanidins	357.6 ± 8.9	634.7 ± 141.6	106.1 ± 7.7	575.5 ± 83.8	482.4 ± 85.6	3402.9 ± 135.2
<u>Phenolic acids</u>						
gallic acid	72.2 ± 6.0	56.1 ± 25.1	52.4 ± 3.2	185.8 ± 24.4	63.7 ± 4.0	155.8 ± 50.3
syringic acid	48.5 ± 15.6	47.7 ± 13.0	24.8 ± 5.2	142.2 ± 14.4	63.8 ± 2.8	110.2 ± 31.3
caftaric acid	7.0 ± 0.7	6.8 ± 3.0	10.5 ± 0.3	2.1 ± 0.1	17.8 ± 2.4	14.9 ± 6.6
ferulic acid	3.4 ± 1.0	16.9 ± 2.1	9.6 ± 0.2	1.6 ± 0.4	9.9 ± 3.9	nd
Σ phenolic acids	131.1 ± 21.9	127.5 ± 43.2	97.3 ± 9.3	331.7 ± 38.3	155.2 ± 2.6	280.8 ± 88.2
<u>Flavonols</u>						
Quercetin	115.0 ± 4.9	77.1 ± 5.6	109.8 ± 2.1	129.0 ± 26.5	263.8 ± 56.9	289.0 ± 37.2
Quercetin-3-O-glucoside	21.7 ± 8.9	18.3 ± 0.3	5.3 ± 0.4	11.5 ± 0.5	10.4 ± 0.7	40.2 ± 1.6
Quercetin-3-O-glucuronide	86.6 ± 15.6	62.0 ± 0.4	44.9 ± 2.3	34.6 ± 1.3	44.2 ± 8.2	57.9 ± 3.2
Kaempferol	30.6 ± 2.4	17.6 ± 1.9	24.6 ± 0.3	37.9 ± 5.5	55.8 ± 3.9	86.3 ± 2.7
Myricetin	23.5 ± 6.1	29.0 ± 3.5	15.8 ± 1.1	23.5 ± 4.6	55.5 ± 3.2	33.6 ± 2.6
Σ flavonols	277.4 ± 20.2	204.1 ± 11.0	200.5 ± 4.1	236.6 ± 38.5	429.8 ± 72.9	507.0 ± 47.3
<u>Stilbens</u>						
<i>trans</i> -resveratrol	1.8 ± 1.3	3.1 ± 0.3	2.4 ± 0.1	14.3 ± 0.8	9.9 ± 0.4	8.7 ± 1.1
<i>trans</i> -piceid	0.8 ± 0.4	1.6 ± 0.1	1.8 ± 0.2	2.0 ± 0.1	4.4 ± 0.6	3.4 ± 1.6
piceatannol	9.4 ± 0.1	45.1 ± 11.8	18.3 ± 0.8	nd	44.9 ± 9.8	30.3 ± 2.7
<i>trans-ε</i> -viniferin	19.2 ± 8.6	60.7 ± 4.3	26.5 ± 3.5	9.1 ± 3.6	113.0 ± 2.1	25.4 ± 0.1
Σ stilbenes	31.2 ± 10.4	110.6 ± 8.0	48.9 ± 2.7	25.3 ± 4.4	172.2 ± 10.9	67.8 ± 0.1

Values are expressed as the mean ± SD of 2 biological and 2 analytical replicates and given in µg/g DW.

Flavan-3-ols/procyanidin dimers are expressed as µg catechin eq./g DW, phenolic acids are expressed as µg gallic acid eq./g DW, quercetin glycosides are expressed as µg quercetin eq./g DW. All other compounds are expressed as µg/g DW of their corresponding reference standards.

nd: not detected

Table S2. Phenolic composition of GP skins and seeds—2022 vintage.

	SYR skins	ALI skins	GRE skins	MOU skins	SYR seeds	ALI seeds	GRE seeds	MOU seeds
Flavan-3-ols/procyanidins								
catechin	103.9 ± 19.8	15.0 ± 10.0	35.3 ± 6.9	43.7 ± 3.6	435.8 ± 40.3	68.1 ± 13.3	241.6 ± 14.1	204.3 ± 57.9
epicatechin	85.4 ± 13.9	11.3 ± 5.7	16.2 ± 3.7	14.5 ± 0.7	391.8 ± 16.1	53.8 ± 9.1	122.6 ± 6.9	72.2 ± 21.3
epicatechin gallate	36.9 ± 5.7	2.8 ± 1.0	6.7 ± 2.0	13.8 ± 0.6	108.2 ± 1.5	10.5 ± 2.6	41.9 ± 4.0	55.1 ± 16.8
procyanidin B1	22.0 ± 5.0	1.0 ± 0.4	8.9 ± 2.9	8.7 ± 0.3	96.6 ± 18.0	3.0 ± 0.5	73.3 ± 5.8	24.6 ± 4.3
procyanidin B2	28.2 ± 4.8	1.8 ± 0.8	11.7 ± 2.8	7.0 ± 1.3	104.4 ± 18.9	4.9 ± 1.0	73.5 ± 7.1	14.5 ± 4.6
procyanidin B3	17.0 ± 2.7	2.1 ± 0.2	5.6 ± 1.4	6.0 ± 0.5	48.9 ± 11.9	2.6 ± 0.9	36.3 ± 2.0	12.0 ± 4.0
procyanidin B4	11.4 ± 2.0	0.6 ± 0.0	3.8 ± 1.7	2.9 ± 0.3	32.9 ± 1.2	1.3 ± 0.2	26.0 ± 5.8	5.8 ± 2.3
procyanidin C1	5.8 ± 1.1	0.3 ± 0.0	2.5 ± 0.5	2.0 ± 0.0	15.7 ± 2.0	0.6 ± 0.1	11.5 ± 0.3	4.5 ± 0.7
Σ flavan-3-ols/procyanidins	310.6 ± 56.2	35.0 ± 18.2	90.7 ± 22.4	98.7 ± 7.8	1234.1 ± 111.2	144.8 ± 23.4	626.7 ± 46.2	393.0 ± 113.4
Phenolic acids								
gallic acid	119.4 ± 15.0	58.5 ± 1.7	59.3 ± 2.8	51.9 ± 14.3	102.3 ± 22.5	135.9 ± 70.8	66.3 ± 3.3	78.0 ± 12.5
syringic acid	39.7 ± 2.6	13.0 ± 0.2	17.0 ± 0.8	11.4 ± 2.3	55.9 ± 6.3	50.0 ± 29.5	28.7 ± 1.9	28.5 ± 0.8
caftaric acid	14.5 ± 1.6	14.5 ± 0.9	32.5 ± 3.3	2.5 ± 0.8	6.3 ± 1.0	6.6 ± 1.0	20.1 ± 1.0	2.0 ± 0.8
ferulic acid	2.1 ± 0.2	3.0 ± 0.3	5.5 ± 0.9	0.6 ± 0.4	nd	nd	3.3 ± 0.9	nd
Σ phenolic acids	175.7 ± 19.3	88.9 ± 0.3	114.2 ± 6.1	66.4 ± 17.8	164.6 ± 29.8	192.4 ± 101.1	118.3 ± 7.1	108.5 ± 14.1
Flavonols								
Quercetin	90.2 ± 11.9	40.8 ± 5.8	123.2 ± 7.7	91.7 ± 12.2	133.0 ± 9.7	77.5 ± 17.4	303.6 ± 8.6	190.4 ± 33.1
Quercetin-3-O-glucoside	6.0 ± 0.3	2.6 ± 0.2	5.9 ± 0.5	10.7 ± 3.1	5.1 ± 0.5	1.4 ± 0.2	9.7 ± 0.1	21.1 ± 4.7
Quercetin-3-O-glucuronide	67.7 ± 6.7	20.2 ± 1.7	77.1 ± 4.3	85.4 ± 17.0	25.5 ± 1.3	3.0 ± 0.4	86.0 ± 2.9	41.5 ± 6.6
Kaempferol	14.6 ± 0.5	8.2 ± 4.0	31.7 ± 0.4	27.0 ± 2.1	25.5 ± 1.1	13.3 ± 0.7	92.4 ± 1.9	69.8 ± 10.8
Myricetin	23.4 ± 2.0	7.5 ± 0.8	18.6 ± 2.4	16.2 ± 3.4	14.9 ± 0.6	4.8 ± 1.5	35.2 ± 4.3	17.2 ± 4.3
Σ flavonols	201.8 ± 21.4	79.4 ± 2.5	256.5 ± 15.1	230.9 ± 37.8	203.9 ± 8.5	99.9 ± 19.3	526.9 ± 13.9	340.0 ± 59.5
Stilbenes								
<i>trans</i> -resveratrol	0.7 ± 0.2	0.4 ± 0.3	0.5 ± 0.1	1.1 ± 0.4	1.8 ± 0.2	nd	6.7 ± 0.9	9.4 ± 2.0
<i>trans</i> -piceid	0.3 ± 0.0	0.3 ± 0.1	0.7 ± 0.1	0.7 ± 0.3	0.5 ± 0.1	0.7 ± 0.2	1.6 ± 0.3	2.7 ± 0.3
piceatannol	40.2 ± 2.8	49.2 ± 12.3	16.0 ± 4.2	18.0 ± 2.0	38.6 ± 0.2	nd	27.9 ± 0.5	26.5 ± 6.4
<i>trans</i> -ε-viniferin	5.2 ± 0.1	19.7 ± 9.0	8.6 ± 2.3	13.3 ± 0.6	4.8 ± 0.6	11.8 ± 0.8	16.2 ± 2.1	12.7 ± 2.4
Σ stilbenes	46.4 ± 3.1	69.6 ± 21.4	25.7 ± 6.5	33.1 ± 3.4	45.7 ± 0.2	12.5 ± 1.9	52.3 ± 2.0	51.3 ± 11.1

Values are expressed as the mean ± SD of 2 biological and 2 analytical replicates and given in µg/g DW.

Flavan-3-ols/procyanidin dimers are expressed as µg catechin eq./g DW, phenolic acids are expressed as µg gallic acid eq./g DW, quercetin glycosides are expressed as µg quercetin eq./g DW.

All other compounds are expressed as µg/g DW of their corresponding reference standards.

nd: not detected

SUPPLEMENTARY DATA

Karastergiou, A., Gancel, A.-L., Jourdes, M. & Teissedre, P.-L. (2025). Transforming winemaking waste: grape pomace as a sustainable source of bioactive compounds: This is an original research article submitted in cooperation with Macrowine 2025. *OENO One*, 59(2). <https://doi.org/10.20870/oeno-one.2025.59.2.9202>

Table S3. Phenolic composition of GP skins and seeds—2023 vintage.

	SYR skins	ALI skins	GRE skins	MOU skins	SYR seeds	ALI seeds	GRE seeds	MOU seeds
<u>Flavan-3-ols/procyanidins</u>								
catechin	505.8 ± 1.7	140.8 ± 6.8	161.5 ± 15.0	123.0 ± 3.7	1215.1 ± 95.0	467.8 ± 17.8	308.6 ± 1.7	250.2 ± 18.5
epicatechin	449.6 ± 2.7	161.2 ± 8.4	72.9 ± 4.8	61.8 ± 0.6	1141.5 ± 80.7	574.6 ± 15.0	142.7 ± 3.8	113.4 ± 5.3
epicatechin gallate	76.5 ± 2.4	16.6 ± 1.8	10.3 ± 1.2	26.2 ± 1.6	160.2 ± 4.8	26.5 ± 1.7	13.3 ± 1.6	45.9 ± 2.0
procyanidin B1	117.4 ± 0.1	48.5 ± 1.6	38.4 ± 4.3	33.6 ± 1.3	234.4 ± 28.4	160.4 ± 11.5	61.9 ± 0.1	46.1 ± 3.8
procyanidin B2	142.8 ± 1.0	75.3 ± 4.8	45.5 ± 5.8	28.5 ± 1.2	295.5 ± 42.9	261.5 ± 3.4	75.7 ± 0.4	39.7 ± 9.5
procyanidin B3	70.7 ± 3.7	38.8 ± 1.4	30.5 ± 2.8	21.9 ± 0.4	122.5 ± 11.6	101.8 ± 5.5	36.2 ± 4.0	26.1 ± 6.4
procyanidin B4	52.0 ± 4.7	27.6 ± 0.7	21.0 ± 2.7	8.6 ± 0.7	77.2 ± 7.9	85.1 ± 3.0	26.0 ± 0.4	9.1 ± 0.9
procyanidin C1	21.2 ± 1.4	15.2 ± 1.2	11.8 ± 2.5	6.1 ± 2.7	35.7 ± 2.8	35.0 ± 1.3	18.2 ± 0.1	12.0 ± 0.3
Σ flavan-3-ols/procyanidins	1435.9 ± 4.1	524.1 ± 20.9	391.9 ± 34.4	309.6 ± 6.1	3282.2 ± 276.5	1712.7 ± 33.9	682.4 ± 10.4	542.6 ± 45.6
<u>Phenolic acids</u>								
gallic acid	139.7 ± 29.9	47.0 ± 3.2	36.7 ± 2.6	56.9 ± 2.6	141.9 ± 23.3	91.5 ± 10.9	49.0 ± 7.4	55.5 ± 4.5
syringic acid	82.2 ± 38.7	18.4 ± 0.3	12.7 ± 1.1	24.0 ± 0.6	74.5 ± 10.3	52.1 ± 0.2	38.7 ± 8.5	38.2 ± 0.4
caftaric acid	15.5 ± 1.3	11.6 ± 3.0	2.1 ± 0.1	2.4 ± 0.2	11.1 ± 0.7	13.6 ± 0.3	2.3 ± 0.1	2.5 ± 0.2
ferulic acid	5.7 ± 3.8	10.1 ± 0.4	1.3 ± 0.1	0.8 ± 0.1	nd	4.2 ± 0.5	nd	nd
Σ phenolic acids	243.1 ± 71.1	87.0 ± 0.2	52.9 ± 1.4	84.1 ± 3.2	227.4 ± 34.3	161.3 ± 9.9	90.0 ± 15.9	96.2 ± 3.9
<u>Flavonols</u>								
Quercetin	198.6 ± 24.9	69.3 ± 4.7	77.4 ± 12.0	122.5 ± 12.0	341.6 ± 3.8	140.0 ± 15.8	135.8 ± 3.7	228.6 ± 21.3
Quercetin-3-O-glucoside	37.0 ± 12.7	12.4 ± 1.1	8.7 ± 0.5	11.0 ± 0.4	39.1 ± 4.0	11.3 ± 0.7	6.9 ± 0.5	9.4 ± 0.8
Quercetin-3-O-glucuronide	146.3 ± 42.6	60.3 ± 2.6	16.2 ± 0.3	40.0 ± 4.4	54.4 ± 9.9	36.6 ± 1.2	9.7 ± 0.1	22.7 ± 1.3
Kaempferol	51.4 ± 5.6	35.3 ± 3.2	19.2 ± 2.5	30.6 ± 2.9	91.8 ± 3.4	74.3 ± 11.5	35.8 ± 1.5	62.8 ± 3.8
Myricetin	39.0 ± 16.8	14.7 ± 0.7	5.4 ± 0.9	21.8 ± 3.6	27.3 ± 1.6	14.5 ± 1.5	6.1 ± 1.6	22.9 ± 1.1
Σ flavonols	472.3 ± 77.2	192.1 ± 12.2	126.9 ± 16.2	226.0 ± 23.4	554.3 ± 15.8	276.6 ± 28.4	194.2 ± 4.4	346.3 ± 24.2
<u>Stilbenes</u>								
<i>trans</i> -resveratrol	3.9 ± 3.5	3.0 ± 0.3	1.1 ± 0.3	1.7 ± 0.1	4.1 ± 0.6	5.8 ± 0.8	3.7 ± 1.1	6.7 ± 1.8
<i>trans</i> -piceid	1.5 ± 1.1	1.5 ± 0.1	0.3 ± 0.1	0.7 ± 0.1	0.7 ± 0.1	2.1 ± 0.2	0.5 ± 0.1	1.5 ± 0.1
piceatannol	19.9 ± 2.2	16.7 ± 0.7	16.4 ± 1.8	28.0 ± 0.4	42.8 ± 2.1	34.9 ± 3.6	30.4 ± 1.0	34.0 ± 2.7
<i>trans</i> -ε-viniferin	32.9 ± 17.6	95.5 ± 3.3	6.9 ± 0.9	13.1 ± 1.9	14.0 ± 0.7	64.6 ± 6.1	8.7 ± 0.2	13.3 ± 1.0
Σ stilbenes	58.2 ± 24.4	116.6 ± 4.4	24.6 ± 3.0	43.5 ± 1.6	61.6 ± 2.1	107.4 ± 10.4	43.4 ± 0.0	55.5 ± 5.5

Values are expressed as the mean ± SD of 2 biological and 2 analytical replicates and given in µg/g DW.

Flavan-3-ols/procyanidin dimers are expressed as µg catechin eq./g DW, phenolic acids are expressed as µg gallic acid eq./g DW, quercetin glycosides are expressed as µg quercetin eq./g DW. All other compounds are expressed as µg/g DW of their corresponding reference standards.

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Table S4. Anthocyanins in GP skins.

	SYR skins			ALI skins			GRE skins			MOU skins	
	2021	2022	2023	2021	2022	2023	2021	2022	2023	2022	2023
delphinidin-3-O- glucoside	78.3 ± 40.3	2.1 ± 0.7	10.9 ± 0.6	72.8 ± 2.2	1.1 ± 1.5	15.3 ± 0.7	1.2 ± 0.5	1.7 ± 0.2	1.7 ± 0.4	1.1 ± 0.4	4.1 ± 0.2
cyanidin-3-O- glucoside	37.0 ± 47.3	1.4 ± 1.0	3.4 ± 0.4	39.3 ± 1.9	1.1 ± 1.3	8.0 ± 0.3	1.1 ± 0.5	1.2 ± 0.2	1.6 ± 0.2	1.0 ± 0.0	2.5 ± 0.3
petunidin-3-O- glucoside	90.6 ± 57.9	3.9 ± 0.6	29.2 ± 0.6	145.8 ± 7.8	2.7 ± 0.4	38.8 ± 1.1	1.7 ± 0.3	2.3 ± 0.3	3.2 ± 0.3	2.1 ± 0.2	9.1 ± 0.6
peonidin-3-O- glucoside	54.9 ± 6.1	2.6 ± 0.4	22.4 ± 0.5	870.5 ± 44.9	4.3 ± 0.3	284.6 ± 3.0	1.2 ± 0.1	1.6 ± 0.4	4.0 ± 0.4	1.2 ± 0.0	4.4 ± 0.4
malvidin-3-O- glucoside	375.1 ± 35.7	39.0 ± 6.5	254.2 ± 2.6	1308.5 ± 56.8	20.8 ± 1.7	846.1 ± 15.3	4.9 ± 0.4	13.0 ± 3.9	29.8 ± 3.5	7.0 ± 0.7	46.1 ± 4.1
Σ 3-O-glucosides	635.9 ± 87.0	49.0 ± 8.8	320.1 ± 3.0	2436.9 ± 112.3	30.0 ± 4.5	1192.7 ± 17.6	10.2 ± 1.6	19.7 ± 4.5	40.3 ± 4.3	12.5 ± 0.7	66.2 ± 5.1
delphinidin-3-O- (6-O-acetyl)-glucoside	33.6 ± 1.1	5.9 ± 2.6	20.3 ± 2.1	65.6 ± 1.4	9.0 ± 2.2	18.2 ± 1.0	5.8 ± 0.1	4.3 ± 0.9	7.3 ± 0.4	4.6 ± 0.3	10.6 ± 1.4
cyanidin-3-O- (6-O-acetyl)- glucoside	9.2 ± 0.6	6.8 ± 0.3	12.6 ± 1.6	21.4 ± 1.2	4.0 ± 0.2	7.4 ± 0.5	1.1 ± 0.1	1.8 ± 0.5	2.6 ± 1.2	1.9 ± 0.3	2.2 ± 0.3
petunidin-3-O- (6-O-acetyl)- glucoside	26.1 ± 1.6	4.7 ± 1.9	26.0 ± 1.1	31.0 ± 3.6	2.9 ± 0.2	18.1 ± 3.1	3.3 ± 0.2	2.2 ± 0.2	3.2 ± 0.5	2.0 ± 0.2	3.7 ± 0.4
peonidin-3-O- (6-O-acetyl)- glucoside	11.9 ± 1.4	4.8 ± 1.5	23.9 ± 2.4	30.9 ± 2.7	4.1 ± 0.2	23.0 ± 4.0	1.0 ± 0.2	1.2 ± 0.3	2.0 ± 0.1	0.9 ± 0.1	2.5 ± 0.4
malvidin-3-O- (6-O-acetyl)- glucoside	134.9 ± 15.7	39.3 ± 24.5	181.2 ± 5.3	201.9 ± 8.2	20.6 ± 1.7	116.9 ± 8.8	2.5 ± 0.1	4.4 ± 1.1	5.3 ± 0.2	3.7 ± 0.9	12.2 ± 1.4
Σ 3-O- (6-O-acetyl)- glucosides	215.7 ± 20.0	61.5 ± 24.3	263.9 ± 5.4	350.8 ± 7.7	40.6 ± 3.6	183.5 ± 11.5	13.7 ± 0.3	13.9 ± 1.8	20.4 ± 1.4	13.1 ± 0.9	31.4 ± 2.9
delphinidin-3-O-(6-O-p-coumaroyl)- glucoside	8.7 ± 0.8	23.0 ± 22.8	8.6 ± 2.3	66.4 ± 4.5	3.0 ± 0.5	46.9 ± 3.5	1.9 ± 0.2	2.4 ± 0.5	2.6 ± 0.4	2.0 ± 0.3	2.6 ± 0.4
cyanidin-3-O-(6-O-p-coumaroyl)- glucoside	51.5 ± 7.0	14.5 ± 2.9	58.7 ± 4.0	175.9 ± 6.5	8.9 ± 1.2	125.7 ± 10.1	2.0 ± 0.2	3.0 ± 1.1	5.1 ± 0.7	2.4 ± 0.2	8.9 ± 1.3
petunidin-3-O-(6-O-p-coumaroyl)- glucoside	73.7 ± 9.5	20.6 ± 3.4	60.1 ± 7.5	143.5 ± 3.4	13.1 ± 0.2	74.2 ± 4.6	2.3 ± 0.1	4.8 ± 0.4	4.1 ± 1.1	3.3 ± 0.2	8.9 ± 1.6
peonidin-3-O-(6-O-p-coumaroyl)- glucoside	114.0 ± 19.1	26.3 ± 4.1	78.9 ± 5.1	667.3 ± 65.1	27.8 ± 0.7	349.4 ± 20.2	3.1 ± 0.3	5.0 ± 1.7	5.2 ± 0.9	3.5 ± 0.3	6.5 ± 0.9
malvidin-3-O-(6-O-p-coumaroyl)- glucoside	566.2 ± 95.8	249.0 ± 145.9	434.0 ± 24.1	1664.9 ± 161.3	183.2 ± 4.1	1114.5 ± 63.7	6.9 ± 0.6	13.4 ± 2.9	17.3 ± 2.4	8.8 ± 0.7	33.8 ± 5.0
Σ 3-O-(6-O-p-coumaroyl)- glucosides	814.0 ± 131.3	333.4 ± 131.7	640.3 ± 41.2	2717.9 ± 232.4	236.0 ± 3.7	1710.8 ± 96.7	16.2 ± 1.1	28.6 ± 5.5	34.3 ± 4.6	20.1 ± 1.4	60.6 ± 8.7

Values are expressed as the mean ± SD of 2 biological and 2 analytical replicates and given in µg eq. malvidin-3-O-glucoside/g DW.