

Table S1. Main molecules identified by HPLC-MS in pomegranate samples.

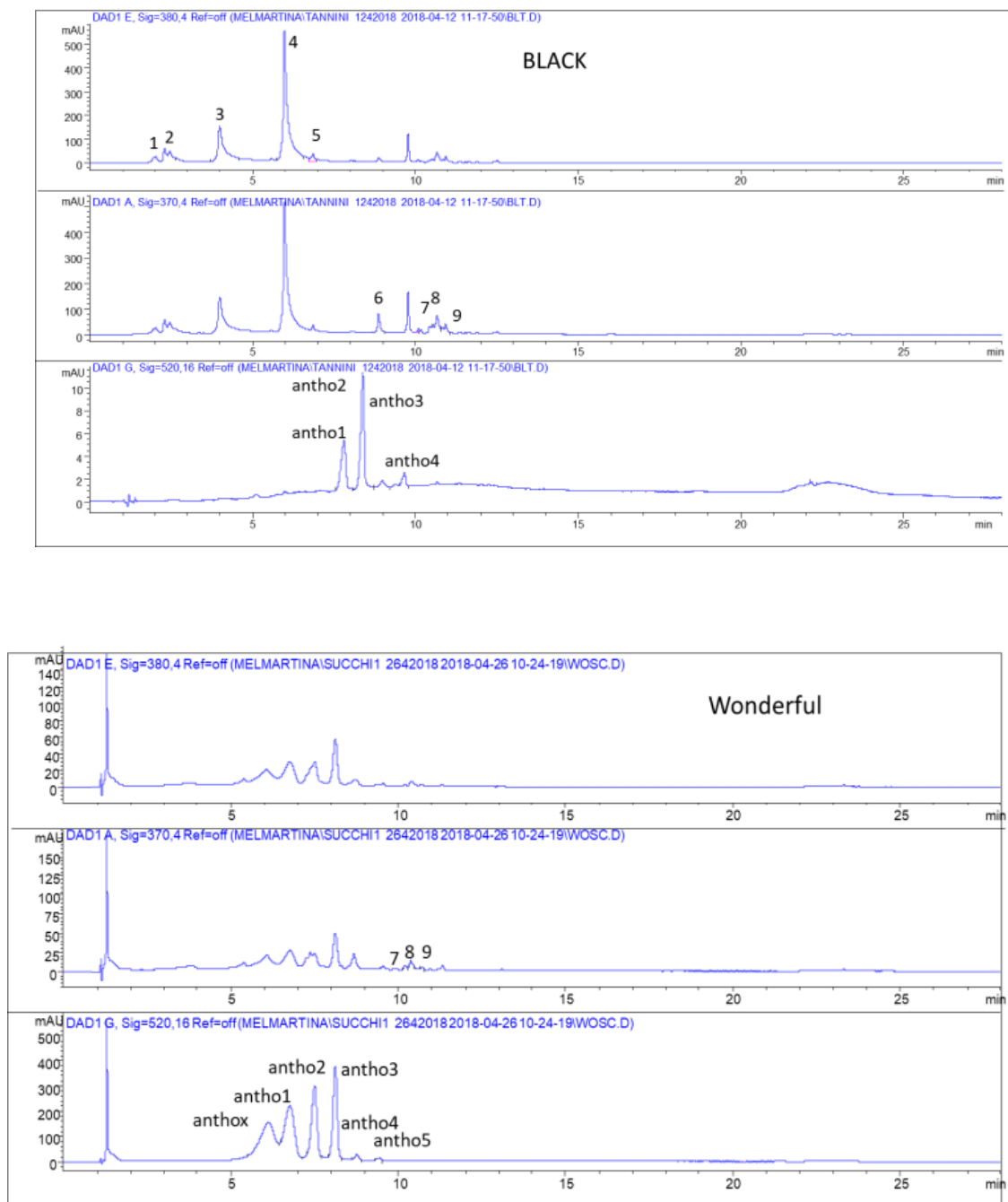
Ellagitannins	rt	[MH]⁻	Identified compounds
3	3.9	1083	α -punicalagin
4	5.9	1083	β -punicalagin
7	10.4	301	ellagic acid
Anthocyanins	rt	[M]⁺	Identified compounds
Anthox	6.1	627	delphinidin-3,5- <i>O</i> -diglucoside
Antho1	6.8	611	cyanidin-3,5- <i>O</i> -diglucoside
Antho2	7.5	465	delphinidin-3- <i>O</i> -glucoside
Antho3	8.1	449	cyanidin-3- <i>O</i> -glucoside
Antho4	8.8	433	pelargonidin-3- <i>O</i> -glucoside

Table S2. α -Amylase and tyrosinase inhibition of all juices and decoctions.

Decoctions	α -Amylase inhibition (mg ACAE/g)	Tyrosinase inhibition (mg KAE/g)
D-AC	59.17±0.79 ^{cde}	51.12±1.59 ^{gh}
D-AR	74.49±0.63 ^b	40.99±1.46 ⁱ
D-AU	77.41±5.94 ^b	54.03±0.32 ^{fg}
D-BL	63.73±3.44 ^{cd}	76.24±1.25 ^c
D-DE	67.85±1.66 ^{bc}	62.86±0.45 ^e
D-GF	75.10±1.22 ^b	53.54±1.54 ^{fg}
D-ME	77.15±0.52 ^b	79.76±0.81 ^c
D-MV	57.95±0.49 ^{def}	118.50±0.81 ^a
D-PS	77.25±0.66 ^b	28.71±1.92 ^j
D-PF	56.70±0.90 ^{defg}	48.70±1.06 ^h
D-SI	75.98±3.40 ^b	86.06±0.39 ^b
D-SN	54.97±0.78 ^{defgh}	28.83±1.52 ^j
D-SZ	76.88±0.40 ^b	57.53±2.51 ^f
D-VK	52.95±0.41 ^{efghij}	24.44±1.45 ^j
D-WO	56.64±0.14 ^{defg}	70.80±2.31 ^d
Juices	α -Amylase inhibition (mg ACAE/g)	Tyrosinase inhibition (mg KAE/g)
J-AC	45.17±0.62 ^{hij}	na
J-AR	45.20±0.86 ^{hij}	na
J-AU	47.14±0.78 ^{ghij}	na
J-BL	133.64±14.06 ^a	na
J-DE	51.23±0.65 ^{efghij}	na
J-GF	49.50±1.54 ^{efghij}	na
J-ME	43.47±0.39 ^j	na
J-MV	47.24±1.21 ^{ghij}	na
J-PA	48.39±1.12 ^{efghij}	4.86±0.56 ^l
J-PF	53.06±1.15 ^{efghij}	7.63±1.37 ^l
J-SI	44.85±0.14 ^{ij}	8.41±1.13 ^l
J-SN	51.33±1.04 ^{efghij}	6.85±1.16 ^l
J-SZ	54.39±1.41 ^{defghi}	7.35±1.46 ^l
J-VK	77.09±0.96 ^b	16.56±0.85 ^k
J-WO	51.07±0.55 ^{efghij}	5.87±0.70 ^l

Values are reported as mean $\pm$ SD of three independent experiments. ACAE: Acarbose equivalent; KAE: Kojic acid equivalent; na: not active. Different letters in the same column indicate significant differences in the extracts ($p > 0.05$).

Figure S1. HPLC-DAD profiles at 380, 370 and 520 nm of the decoction from Black and of the juice from Wonderful varieties.



Peak n° 1, 2, 5, 6, 8, 9, **antho5**, unidentified; 3, α -punicalagin; 4, β -punicalagin; 7, ellagic acid; **anthox**, delphinidin-3,5-*O*-diglucoside; **antho1**, cyanidin-3,5-*O*-diglucoside; **antho2**, delphinidin-3-*O*-glucoside; **antho3**, cyanidin-3-*O*-glucoside; **antho4**, pelargonidin-3-*O*-glucoside.

Figure S2. Hydrodynamic volume of the main polysaccharides fractions obtained by SEC for the varieties Acco, Wonderful, Black, Mollar de Elche.

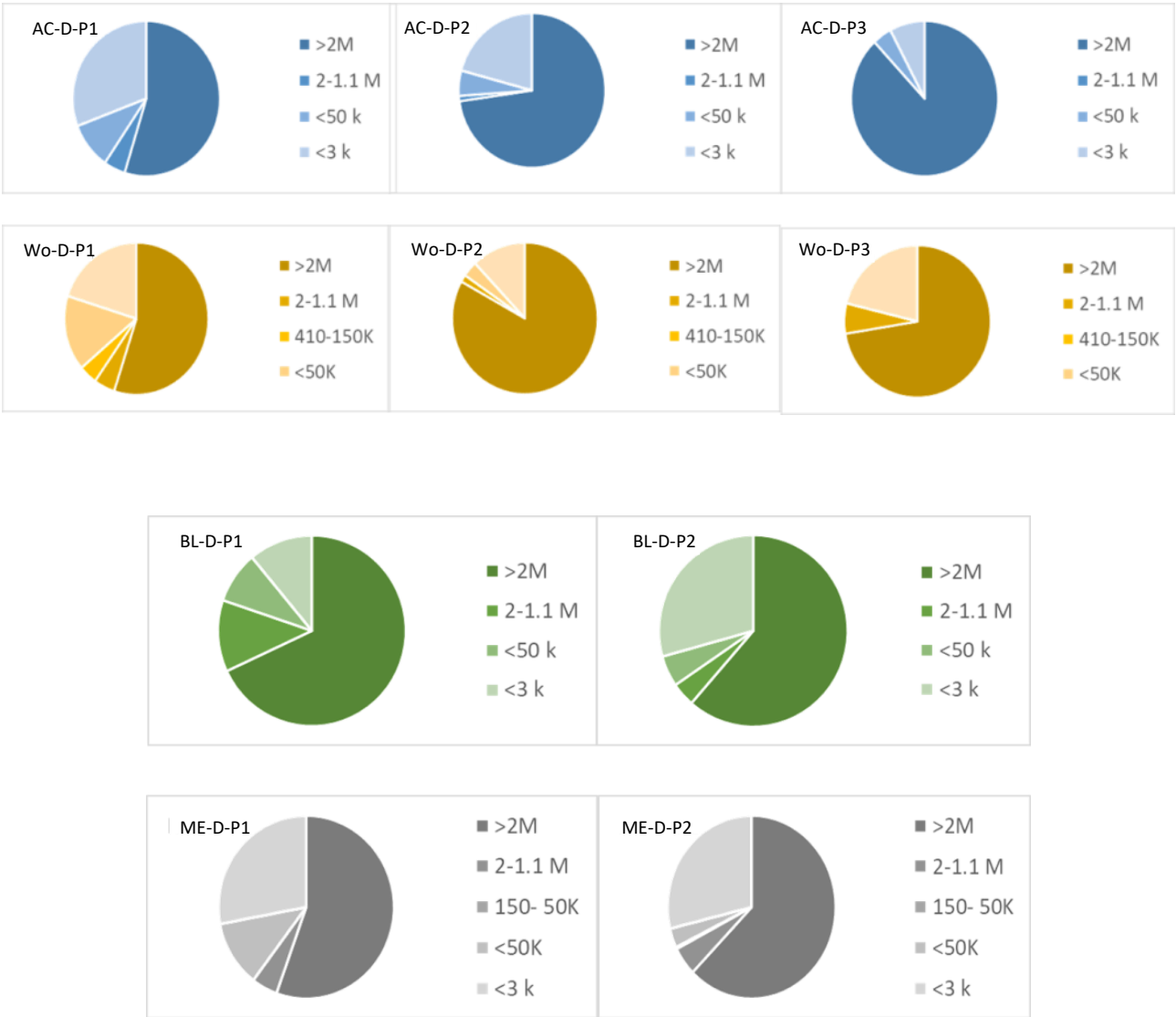


Figure S3. Correlation between h_{ab} (color hue) and the delphinidin/cyanidin ratio, with both delphinidin and cyanidin expressed as sum of all the quantified glycosides in the fresh juices.

