

Table 2. Pharmacokinetic characteristics of plasma anthocyanins and anthocyanin metabolites over 120 min and urinary concentrations at 120 minutes, after the consumption of (A) 250 mL of table red wine and (B) 150 mL of Port wine.

(A)		Table red wine					
	Peak number	Pigment	Ingested dose (mg)	C _{max} (ng/mL)	AUC (ng/mL*min)	t _{max} (min)	Conc. (at 120 min) μmol/mg creatinine
Native anthocyanins	1	Dp3glc	11.10 ± 0.03	-	-	-	0.016 ± 0.011
	2	Pt3glc	13.88 ± 0.23	-	-	-	0.018 ± 0.005
	3	Pn3glc	22.04 ± 0.53	0.8 ± 0.0	69.8 ± 4.1	70 ± 4.1	0.031 ± 0.004
	4	Mv3glc	133.88 ± 3.26	5.3 ± 0.2	469.8 ± 27.4	67.5 ± 18.9	0.209 ± 0.026
Anthocyanin conjugates	5	DpGlucr	-	1.2 ± 0.3	82.3 ± 16.0	>120	0.014 ± 0.004
	6	PnGlucr	-	8.7 ± 1.3	616.3 ± 77.3	105 ± 15	0.156 ± 0.006
	7	MvGlucr	-	17.3 ± 0.0	1009.0 ± 268.6	>120	0.281 ± 0.067

(B)		Young Port red wine					
	Peak number	Pigment	Ingested dose (mg)	C _{max} (ng/mL)	AUC (ng/mL*min)	t _{max} (min)	Conc. (at 120 min) μmol/mg creatinine
Native anthocyanins	2	Pt3glc	2.21 ± 0.00	-	-	-	0.006 ± 0.001
	3	Pn3glc	1.21 ± 0.02	-	-	-	0.006 ± 0.002
	4	Mv3glc	24.36 ± 0.23	2.0 ± 0.6	159.1 ± 31.9	67.5 ± 18.9	0.043 ± 0.018
Anthocyanin conjugates	6	PnGlucr	-	0.6 ± 0.1	63.2 ± 13.3	75 ± 15	0.002 ± 0.001
	7	MvGlucr	-	4.1 ± 0.9	301.3 ± 66.5	105 ± 15	0.038 ± 0.006

Values are presented as mean ± SEM (n=4). The non-parametric test Wilcoxon signed-rank, for paired samples, was used. No significant differences were observed between Port and table red wine, p> 0.05. Plasma concentrations of anthocyanins and anthocyanin metabolites were quantified by HPLC-DAD. Values were corrected to urinary creatinine values and expressed as ng/mg creatinine. 1, Dp3glc: delphinidin-3-O-glucoside; 2, Pt3glc: petunidin-3-O-glucoside; 3, Pn3glc: peonidin-3-O-glucoside; 4, Mv3glc: malvidin-3-O-glucoside; 5, DpGlucr: delphinidin-glucuronide, 6, PnGlucr: peonidin-glucuronide, and 7, MvGlucr: malvidin-glucuronide. AUC₀₋₁₂₀, area under the curve (0-120 min); Glc, glucose; Glucr, glucuronide; C_{max}, maximum plasma concentration; t_{max}, time to reach maximum plasma concentration.