





Figure S1. Mass spectra of some of the identified anthocyanin compounds (a) Mass spectra of Cyanidin diglucoside showing an observed m/z 611.1602 in all the raspberry juice powders; (b) Mass spectra of Cyanidin 3-*O*-galactoside showing an observed m/z 449.1082 in all the raspberry juice powders; (c) Mass spectra of Cyanidin 3-*O*-glucosyl-rutinoside showing an m/z 757.2183 in all the raspberry juice powders; (d) Mass spectra of Cyanidin 3-*O*-rutinoside showing an observed m/z 595.1665 in the maltodextrin and waxy starch encapsulated powders.

Table S1. Chromatographic and spectrometric parameters including retention time, adduct ion, theoretical and measured mass (m/z), accuracy and sensitivity for anthocyanins (n=4) in the investigated raspberry juice powders.

Tentative Assignment	Retention time (min)	Chemical formula	[M-H] ⁻ theoretical mass (m/z)	[M-H] ⁻ Experimental mass (m/z)	MS/MS Fragment ions (m/z)	Accuracy (ppm)	Sensitivity (ppm)	UV (nm)
Cyanidin diglucoside	11.36	C ₂₇ H ₃₁ O ₁₆	611.1612	611.1610	611.1608, 287.0554	0.3	-	550
Cyanidin 3-O-galactoside	12.31	C ₂₁ H ₂₁ O ₁₁	449.1050	449.1082	449.1070, 287.0558	3.2	1.09	550
Cyanidin 3-O-glucosyl-rutinoside	12.53	C ₃₃ H ₄₁ O ₂₀	757.2132	757.2170	757.2189, 287.0552	3.6	-	550
Cyanidin 3-O-rutinoside	13.42	C ₂₇ H ₃₁ O ₁₅	595.1651	595.1665	595.1680, 287.0554	2.4	-	550

- = no sensitivity