

Table 1. HPLC-MS/MS parameters for the identification of anthocyanins and anthocyanin metabolites in human plasma and urine samples reported in the literature.

Anthocyanins (LC-MS)			Anthocyanins source	Previously described in	
Compound	M <sup>+</sup>	MS <sup>2</sup>		Plasma	Urine
Dp3glc	465	303 (-162)	Grape/blueberry juice and smoothie Red Grape Juice and Red Wine	7, 16	7, 16
4'-Me-Dp3glc	479	317 (-162)			
Dp3glc-Glucr	641	465 (-176) 479 (-162) 303 (-176, -162)			
Dp3glc-Sulp	545	383 (-162) 303 (-162, -80) 465 (-80)			
Dp3glc-diSulp	625	303 (162, -80, -80)			
Dp	303				
Dp-Me	317	303 (-14)			
Dp-Glucr	479	303 (-176)			
Dp-diGlucr	655	303 (-176, -176)			
Mv3glc	493	331 (-162)	Grape/blueberry juice and smoothie Red Grape Juice and Red Wine Red wine extract	7, 9, 16	7, 16
Mv3glc-Glucr	669	493 (-176) 507 (-162) 331 (-176, -162)			
Mv3glc-Sulp	573	493 (-80) 411 (-162) 331 (-162, -80)			
Mv	331				
Mv-Glucr	507	331 (-176)	Grape/blueberry juice and smoothie Red wine extract	9, 16	16
Mv-Sulp	411	331 (-80)			
Mv3glc-Cum	639	331 (-162, -146) 493 (-146)			
Mv3glc-Cum-Glucr	815	639 (-176) 669 (-146) 331 (-176, -146, -162) 507 (-146, -162) 493 (-176, -146)			
Mv3glc-Cum-Sulp	719	573 (-146) 411 (-146, -162) 639 (-80) 331 (-146, -162, -80)			
Mv3glc-Acet	535	331 (-162, -42) 493 (-42)			
Mv3glc-Acet-Glucr	711	535 (-176) 493 (-176, -42) 331 (-176, -42, -162) 669 (-42) 507 (-42, -162)			
Mv3glc-Acet-Sulp	615	573 (-42) 411 (-42, -162) 535 (-80) 331 (-42, -162, -80)			

Pt3glc	479	317 (-162)	Grape/blueberry juice and smoothie Red wine	7, 16	7, 16
5'-O-Me-Pt3glc	493	331 (-162)			
Pt3glc-Glucr	655	479 (-176) 493 (-162) 317 (-176, -162)			
Pt3glc-Sulp	559	479 (-80) 397 (-162) 317 (-162, -80)			
Pt	317				
Pt-Me	331	317 (-14)			
Pt-Glucr	493	317 (-176)			
Pt-Sulp	397	317 (-80)			
Pn3glc	463	301 (-162)	Grape/blueberry juice and smoothie Red wine extract Red cabbage	7, 9, 16, 23	7, 16, 23, 24
Pn3glc-Glucr	639	463 (-176) 477 (-162) 301 (-176, -162)			
Pn3glc-Sulp	543	463 (-80) 381 (-162) 301 (-162, -80)			
Pn	301	286	Red cabbage		23
Pn-Glucr	477	301 (-176)	Grape/blueberry juice and smoothie Red wine extract Elderberry or Blueberry extract	9, 16	16, 24
Pn-Sulp	381	301 (-80)			

diSulp, disulphate; Glucr, glucuronide; Me, methyl; Sulp, sulphate.