

**Table S1.** Preparation of stock solutions of simulated digestion fluids: simulated saliva fluid (SSF), gastric fluid (SGF) and intestinal fluid (SIF) stock solutions. The final volume for each digestive fluid is 500 mL and at a concentration of  $1.25 \times [1]$ .

Constituent	Stock conc.		SSF		SGF		SIF	
			pH 7		pH 3		pH 7	
	g/L	mol/L	Vol. of stock	Conc. in SSF	Vol. of stock	Conc. in SGF	Vol. of stock	Conc. in SIF
			mL	mmol/L	mL	mmol/L	mL	mmol/L
KCl	37.3	0.5	15.1	15.1	6.9	6.9	6.8	6.8
KH <sub>2</sub> PO <sub>4</sub>	68	0.5	3.7	3.7	0.9	0.9	0.8	0.8
NaHCO <sub>3</sub>	84	1	6.8	13.6	12.5	25	42.5	85
NaCl	117	2	—	—	11.8	47.2	9.6	38.4
MgCl <sub>2</sub> (H <sub>2</sub> O) <sub>6</sub>	30.5	0.15	0.5	0.15	0.4	0.1	1.1	0.33
(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub>	48	0.5	0.06	0.06	0.5	0.5	—	—
<b>For pH adjustment</b>								
	mol/L		mL	mmol/L	mL	mmol/L	mL	mmol/L
NaOH	1		—	—	—	—	—	—
HCl	6		0.09	1.1	1.3	15.6	0.7	8.4
<b>CaCl<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub> is not added to the simulated digestion fluids</b>								
	g/L	mmol/L		mmol/L		mmol/L		mmol/L
CaCl <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>	44.1	0.3		1.5*		0.15*		0.6*

\* is the corresponding Ca<sup>2+</sup> concentration in the final digestion mixture.

**Table S2.** Correlation analysis between phenolic content and antioxidant capacity.

Assays	r	Confidence interval of r	Significance level
<b>Between phenolic content and antioxidant capacity</b>			
TPC – DPPH	0.799	0.584 to 0.909	*
TPC – Reducing power	0.743	0.484 to 0.881	*
TFC – DPPH	0.784	0.557 to 0.902	*
TFC – Reducing power	0.562	0.419 to 0.862	*
<b>Between phenolic and flavonoid</b>			
TPC – TFC	0.873	0.724 to 0.943	*
<b>Between DPPH and reducing power</b>			
DPPH – Reducing power	0.839	0.658 to 0.928	*

Twelve paired average samples from each test were used in the comparison. r value represents the Pearson's linear correlation value. The level of significance was expressed as \*p < 0.01.

## References

1. Minekus, M.; Alminger, M.; Alvito, P.; Ballance, S.; Bohn, T.; Bourlieu, C.; Carriere, F.; Boutrou, R.; Corredig, M.; Dupont, D. A standardised static in vitro digestion method suitable for food—an international consensus. *Food Funct.* **2014**, *5*, 1113-1124.