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Supp. Table S1. Linear relationships between pH, total acidity, organic acid and phenolic compounds of vinegar samples

	1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*	*17*	*18*	*19*	*20*	*21*	*22*	*23*	*24*	*25*	*26*	*27*	*28*	*29*	*30*	*31*	*32*	*33*	*34*	*35*	*36*	*37*	*38*	*39*	*40*
1*	1.00																																							
2	-0.34	1.00																																						
3	-0.68	0.55	1.00																																					
4	0.24	-0.60	-0.09	1.00																																				
5	-0.10	-0.11	0.36	0.34	1.00																																			
6	0.00	0.06	-0.24	-0.05	-0.16	1.00																																		
7	-0.13	0.42	0.03	-0.45	-0.05	-0.22	1.00																																	
8	-0.12	-0.52	0.08	**0.88**	0.37	-0.21	-0.29	1.00																																
9	-0.10	-0.10	0.36	0.32	**0.99**	-0.22	0.00	0.37	1.00																															
10	0.49	-0.32	-0.46	-0.14	-0.15	0.51	-0.54	-0.44	-0.19	1.00																														
11	0.02	0.07	-0.25	-0.06	-0.18	**0.99**	-0.23	-0.22	-0.23	0.52	1.00																													
12	-0.14	0.44	0.04	-0.46	-0.06	-0.23	1.00	-0.29	-0.01	-0.54	-0.24	1.00																												
13	-0.08	-0.42	-0.06	-0.27	-0.17	-0.14	-0.18	-0.18	-0.16	0.44	-0.15	-0.18	1.00																											
14	0.04	0.23	-0.21	-0.35	0.06	-0.17	**0.95**	-0.21	0.11	-0.42	-0.17	**0.94**	-0.20	1.00																										
15	-0.11	-0.12	0.36	0.34	**0.99**	-0.21	-0.02	0.39	**0.99**	-0.18	-0.23	-0.03	-0.16	0.08	1.00																									
16	0.53	-0.16	-0.40	-0.11	-0.43	-0.13	-0.37	-0.16	-0.43	0.46	-0.09	-0.37	0.35	-0.31	-0.42	1.00																								
17	-0.50	**0.86**	**0.76**	-0.35	0.34	0.12	0.19	-0.24	0.33	-0.32	0.12	0.20	-0.45	0.04	0.33	-0.38	1.00																							
18	0.68	-0.19	-0.24	0.24	0.02	-0.07	-0.19	-0.21	0.00	0.39	-0.08	-0.19	-0.12	-0.16	-0.01	0.03	-0.25	1.00																						
19	0.51	-0.27	-0.49	-0.17	-0.35	0.55	-0.45	-0.49	-0.39	**0.97**	0.56	-0.45	0.44	-0.38	-0.39	0.48	-0.37	0.41	1.00																					
20	-0.59	0.61	**0.77**	-0.30	-0.28	-0.14	0.18	-0.18	-0.27	-0.40	-0.15	0.20	0.05	-0.14	-0.27	-0.25	0.52	-0.14	-0.27	1.00																				
21	-0.05	0.02	-0.21	-0.03	-0.11	**0.99**	-0.20	-0.18	-0.16	0.49	**0.98**	-0.20	-0.11	-0.15	-0.16	-0.24	0.10	-0.05	0.52	-0.12	1.00																			
22	0.19	-0.14	-0.41	-0.47	-0.09	-0.08	0.68	-0.43	-0.05	0.12	-0.10	0.67	0.43	**0.75**	-0.07	-0.05	-0.34	0.01	0.16	-0.23	-0.05	1.00																		
23	-0.27	0.25	0.07	-0.44	0.50	-0.18	0.54	-0.20	0.53	-0.28	-0.18	0.54	-0.13	0.65	0.52	-0.32	0.36	-0.38	-0.42	-0.27	-0.16	0.43	1.00																	
24	-0.10	0.14	-0.22	-0.18	-0.11	**0.92**	0.12	-0.29	-0.15	0.32	**0.91**	0.11	-0.19	0.17	-0.15	-0.39	0.17	-0.09	0.38	-0.10	**0.95**	0.17	0.06	1.00																
25	0.28	-0.01	-0.27	0.04	0.05	0.51	-0.25	-0.33	0.00	0.46	0.49	-0.25	-0.36	-0.17	0.00	-0.31	0.05	0.64	0.43	-0.24	0.54	-0.13	-0.08	0.51	1.00															
26	-0.19	0.47	-0.07	-0.53	-0.04	0.23	**0.83**	-0.47	-0.01	-0.26	0.22	**0.83**	-0.31	**0.82**	-0.03	-0.56	0.32	-0.12	-0.20	0.07	0.27	0.58	0.59	0.56	0.23	1.00														
27	-0.10	-0.11	0.36	0.49	**0.87**	0.14	-0.28	0.52	**0.84**	-0.03	0.13	-0.29	-0.20	-0.19	**0.85**	-0.26	0.36	-0.15	-0.21	-0.24	0.16	-0.34	0.21	0.05	-0.04	-0.24	1.00													
28	0.16	0.12	0.40	0.30	**0.76**	-0.21	-0.31	0.25	**0.75**	0.00	-0.20	-0.31	-0.27	-0.25	**0.75**	0.09	0.45	0.12	-0.18	-0.17	-0.24	-0.43	0.20	-0.35	-0.04	-0.38	**0.79**	1.00												
29	-0.07	0.03	-0.18	-0.01	-0.08	**0.99**	-0.21	-0.16	-0.13	0.47	**0.98**	-0.21	-0.12	-0.16	-0.12	-0.25	0.13	-0.06	0.51	-0.12	**1.00**	-0.07	-0.15	**0.94**	0.53	0.25	0.20	-0.20	1.00											
30	0.49	-0.36	-0.03	0.40	0.46	-0.23	-0.35	0.05	0.45	0.34	-0.24	-0.35	0.01	-0.28	0.45	-0.09	-0.17	**0.85**	0.24	-0.25	-0.18	-0.08	-0.17	-0.27	0.51	-0.30	0.25	0.44	-0.17	1.00										
31	-0.28	-0.12	0.34	0.52	0.67	0.43	-0.36	0.55	0.63	-0.01	0.41	-0.37	-0.22	-0.30	0.64	-0.40	0.34	-0.25	-0.13	-0.12	0.46	-0.44	0.03	0.34	0.07	-0.18	**0.91**	0.51	0.50	0.07	1.00									
32	0.25	0.33	0.03	-0.07	0.11	-0.03	-0.21	-0.02	0.12	0.07	0.01	-0.21	-0.28	-0.15	0.12	0.61	0.33	-0.23	-0.01	-0.22	-0.15	-0.37	0.15	-0.24	-0.24	-0.30	0.31	0.63	-0.13	-0.20	0.11	1.00								
33	0.04	-0.03	-0.27	0.02	-0.14	**0.99**	-0.21	-0.15	-0.19	0.52	**0.99**	-0.22	-0.10	-0.15	-0.19	-0.15	0.04	-0.03	0.57	-0.17	**0.99**	-0.03	-0.22	**0.92**	0.49	0.22	0.16	-0.23	**0.99**	-0.18	0.45	-0.10	1.00							
34	0.20	-0.44	-0.11	-0.08	0.06	-0.29	-0.37	-0.02	0.07	0.47	-0.27	-0.37	**0.82**	-0.30	0.08	0.66	-0.39	-0.09	0.39	-0.23	-0.31	0.21	-0.06	-0.46	-0.46	-0.59	0.09	0.21	-0.31	0.14	-0.10	0.23	-0.27	1.00						
35	-0.27	0.12	-0.07	-0.33	-0.25	**0.88**	-0.21	-0.33	-0.29	0.52	**0.88**	-0.21	0.22	-0.21	-0.29	-0.01	0.16	-0.35	0.55	0.05	**0.87**	0.01	-0.09	**0.80**	0.22	0.17	0.04	-0.30	**0.87**	-0.44	0.33	-0.02	**0.86**	0.00	1.00				
36	-0.01	0.01	0.33	0.35	**0.79**	0.37	-0.32	0.22	**0.76**	0.21	0.36	-0.33	-0.23	-0.25	**0.76**	-0.33	0.45	0.11	0.06	-0.18	0.40	-0.31	0.13	0.29	0.31	-0.11	**0.91**	**0.73**	0.43	0.41	**0.86**	0.20	0.39	-0.03	0.22	1.00			
37	0.31	0.07	-0.15	0.25	-0.01	-0.23	-0.02	0.37	0.01	-0.27	-0.20	-0.03	-0.35	0.06	0.01	0.55	0.00	-0.29	-0.29	-0.27	-0.34	-0.28	0.02	-0.38	-0.50	-0.30	0.19	0.40	-0.33	-0.32	0.03	**0.81**	-0.26	0.12	-0.30	-0.08	1.00		
38	-0.27	-0.04	0.02	0.25	-0.05	**0.88**	-0.27	0.17	-0.10	0.21	**0.86**	-0.27	-0.17	-0.27	-0.09	-0.38	0.13	-0.17	0.26	0.06	**0.90**	-0.28	-0.31	**0.81**	0.36	0.10	0.29	-0.21	**0.91**	-0.22	0.64	-0.23	**0.89**	-0.39	**0.76**	0.42	-0.28	1.00	
39	-0.04	-0.01	-0.18	0.05	-0.03	**0.98**	-0.24	-0.11	-0.08	0.48	**0.97**	-0.24	-0.14	-0.18	-0.07	-0.26	0.12	-0.03	0.50	-0.15	**0.99**	-0.10	-0.16	**0.93**	0.54	0.22	0.25	-0.16	**0.99**	-0.13	0.54	-0.12	**0.99**	-0.31	**0.84**	0.48	-0.31	**0.92**	1.00	
40	0.20	0.25	-0.29	-0.37	-0.08	-0.15	**0.88**	-0.25	-0.03	-0.31	-0.14	**0.87**	-0.14	**0.94**	-0.05	-0.01	-0.01	-0.19	-0.24	-0.17	-0.17	0.73	0.52	0.10	-0.32	0.68	-0.21	-0.20	-0.19	-0.38	-0.36	0.09	-0.14	-0.13	-0.17	-0.30	0.30	-0.33	-0.21	1.00

*1: Total acidity; 2: pH; 3: Maleic acid; 4: Malonic acid; 5: Barbituric acid; 6: Oksalic-dyhidrate 7: DL-isocitric acid; 8: (-)Quinic acid; 9: Shikimic acid; 10: Adipic acid; 11: Oxalic acid; 12: Citric acid; 13: D-(−)-Tartaric acid; 14: D-(+)-Malic acid; 15:Succinic acid; 16: L-(+)-Lactic acid; 17: Acetic acid; 18: Fumaric acid; 19: Propionic acid; 20: Isobutyric acid; 21: Butyric acid; 22: Ascorbic acid; 23: Gallic acid; 24: Ferulic acid; 25: Protocatechuic acid; 26: Hydroxybenzoic acid; 27: Vanillic acid; 28: Gentisic acid; 29: *p*-coumaric acid; 30: *o*-coumaric acid; 31: Trans-sinamic acid; 32: Catechin; 33: Rutin; 34: Naringin; 35: Neohesperidin; 36: Coumarin; 37: Resveratrol; 38: Quarcetin; 39: Hesperidin; 40: Alizarin

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Supp. Table S2. Linear relationships between total anthocyanin content, antioxidant capacity (DPPH) and Total phenolic content

	TAC	DPPH-E	DPPH-H	DPPH-B	DPPH-B%	TPC-E	TPC-H	TPC-B	TPC-B%
TAC*	1.00								
DPPH-E	0.60	1.00							
DPPH-H	0.55	0.00	1.00						
DPPH-B	0.35	0.17	0.26	1.00					
DPPH-B%	0.07	-0.11	0.06	**0.94**	1.00				
TPC-E	-0.04	0.00	-0.34	**0.75**	**0.85**	1.00			
TPC-H	0.02	-0.05	-0.23	0.40	0.48	**0.75**	1.00		
TPC-B	0.26	0.18	0.11	**0.97**	**0.94**	**0.85**	0.52	1.00	
TPC-B%	0.44	0.34	0.67	0.39	0.16	-0.27	-0.59	0.26	1.00

*TAC: Total anthocyanin content; DPPH: Trolox equivalent antioxidant capacity according to DPPH method; TPC: Total phenolic content; E: Extractable phenolic fraction; H: Hydrolysable phenolic fraction; B: Bioaccessible phenolic fraction; B% Bioaccessibility