

Table 1 Variations in tea flavor-related metabolite levels in Population (Adopted from Fang et al., 2021)

Metabolite	Season	Range (%)	Mean (%)	^a SD	^b CV	^c H'	Heritability
Theanine (TN)	Spring	0–4.03	1.56	0.84	0.54	2.03	0.6
	Summer	0–2.58	0.94	0.51	0.54	2.06	
	Autumn	0–6.01	1.92	1.03	0.54	2.01	
	Mean	–	1.47	0.79	0.54	2.03	
Caffeine (CAF)	Spring	0.09–5.36	2.72	0.81	0.3	1.9	0.7
	Summer	0–3.48	2.29	0.64	0.28	1.85	
	Autumn	0.03–5.0	2.84	0.81	0.29	1.83	
	Mean	–	2.62	0.75	0.29	1.86	
(+)–Galocatechin (GC)	Spring	1.08–3.50	2.19	0.47	0.21	2.04	0.55
	Summer	1.38–4.21	2.63	0.6	0.23	2.05	
	Autumn	1.40–5.31	2.84	0.81	0.29	1.79	
	Mean	–	2.55	0.63	0.24	1.96	
(–)–Epigallocatechin (EGC)	Spring	0.40–5.11	2.11	0.81	0.39	2.02	0.59
	Summer	0.40–9.93	2.37	1.14	0.48	1.96	
	Autumn	0.40–5.18	2.48	0.93	0.38	2.07	
	Mean	–	2.32	0.96	0.42	2.02	
(+)–Catechin (C)	Spring	0.83–4.01	1.22	0.45	0.37	1.49	0.9
	Summer	0.87–3.14	1.3	0.44	0.34	1.51	
	Autumn	0.88–3.95	1.36	0.44	0.32	1.58	
	Mean	–	1.29	0.44	0.34	1.53	
(–)–Epicatechin (EC)	Spring	0.08–0.37	0.16	0.05	0.31	1.88	0.7
	Summer	0.08–0.46	0.18	0.06	0.33	1.92	
	Autumn	0.09–0.34	0.17	0.05	0.29	1.99	
	Mean	–	0.17	0.05	0.31	1.93	
(–)–Epigallocatechin- 3-gallate (EGCG)	Spring	3.55–16.24	8.85	2.28	0.26	2.09	0.67
	Summer	3.42–12.40	7.47	1.87	0.25	2.08	
	Autumn	3.68–13.76	8.28	1.96	0.24	2.09	
	Mean	–	8.2	2.04	0.25	2.09	
(–)–Galocatechin (GCG)	Spring	3.10–12.22	5.27	1.16	0.22	1.87	0.75
	Summer	3.19–7.59	4.93	0.83	0.17	2.03	
	Autumn	3.05–9.08	5.35	0.83	0.17	2.02	
	Mean	–	5.18	0.94	0.19	1.97	
(–)–Epicatechin-3-gal late (ECG)	Spring	1.96–8.35	3.7	0.93	0.25	1.92	0.57
	Summer	2.02–6.70	3.62	0.73	0.2	2	
	Autumn	2.06–6.79	3.75	0.86	0.23	1.93	
	Mean	–	3.69	0.84	0.23	1.95	
Catechin gallate (CG)	Spring	3.00–5.74	3.7	0.42	0.11	1.93	0.56
	Summer	3.08–4.94	3.73	0.35	0.09	2.04	
	Autumn	3.06–6.51	3.82	0.43	0.11	1.89	
	Mean	–	3.75	0.4	0.1	1.95	

Note: ^aSD: standard deviation; ^bCV: Coefficient of variation; ^cH': Shannon-Wiener diversity index