

Table S1. Summary of system suitability parameters for HPLC analysis 10 flavonoids with different flow rates (0.8, 1.0, and 1.2 mL/min).

Compounds	0.8 mL/min			1.0 mL/min			1.2 mL/min		
	^a RT (min)	Asymmetry	Resolutions	RT (min)	Asymmetry	Resolutions	RT (min)	Asymmetry	Resolutions
Rutin	3.10	1.08	15.02	3.98	0.87	12.99	3.37	0.85	11.81
Narirutin	4.88	0.89	15.36	6.41	0.86	4.68	5.44	0.83	4.11
Naringin	7.85	0.89	5.04	7.52	0.82	3.53	6.43	0.80	3.24
Hesperidin	8.97	0.88	4.02	8.33	0.85	4.54	7.25	0.80	4.24
Neohesperidin	9.77	0.92	5.03	9.27	0.84	22.33	8.22	0.80	19.25
Quercetin	10.68	0.89	26.68	14.44	0.92	11.85	13.25	0.87	9.83
Naringenin	16.04	0.97	14.78	17.69	0.85	5.04	16.38	0.81	4.17
Hesperetin	19.44	0.88	5.63	19.02	0.84	24.02	17.71	0.80	21.53
Nobiletin	20.61	0.90	27.47	23.64	0.85	11.83	22.64	0.82	11.07
Tangeretin	24.99	0.92	^b n.a.	25.33	0.87	n.a.	24.31	0.82	n.a.

^aRT, retention time

^bn.a., not analyzed

Table S2. Summary of system suitability parameters for HPLC analysis 10 flavonoids with different column temperatures (30, 35, 40, and 45 °C).

Compounds	30 °C			35 °C			40 °C			45 °C		
	^a RT (min)	Asymmetry	Resolutions	RT (min)	Asymmetry	Resolutions	RT (min)	Asymmetry	Resolutions	RT (min)	Asymmetry	Resolutions
Rutin	5.53	0.98	18.02	5.17	0.94	16.79	4.87	0.89	15.16	4.60	0.86	14.12
Narirutin	8.80	0.92	5.69	8.31	0.90	5.36	7.83	0.89	4.97	7.37	0.87	4.81
Naringin	9.84	0.86	3.37	9.38	0.86	3.76	8.95	0.87	3.96	8.51	0.84	4.19
Hesperidin	10.41	0.96	5.55	10.07	0.92	5.34	9.75	0.92	5.01	9.43	0.85	4.73
Neohesperidin	11.30	0.92	35.63	10.98	0.90	31.22	10.67	0.88	26.53	10.37	0.85	21.46
Quercetin	17.34	1.00	19.02	16.66	0.96	17.31	16.03	0.95	14.63	15.43	1.00	11.57
Naringenin	20.62	0.95	5.45	20.04	0.89	5.69	19.43	0.89	5.62	18.79	0.87	5.17
Hesperetin	21.43	0.76	27.99	21.01	0.90	28.33	20.59	0.88	27.52	20.17	0.86	24.56
Nobiletin	25.20	0.95	13.62	25.09	0.93	12.97	24.99	0.90	12.23	24.88	0.87	10.93
Tangeretin	27.00	0.96	^b n.a.	26.84	0.92	n.a.	26.69	0.92	n.a.	26.54	0.89	n.a.

^aRT, retention time

^bn.a., not analyzed

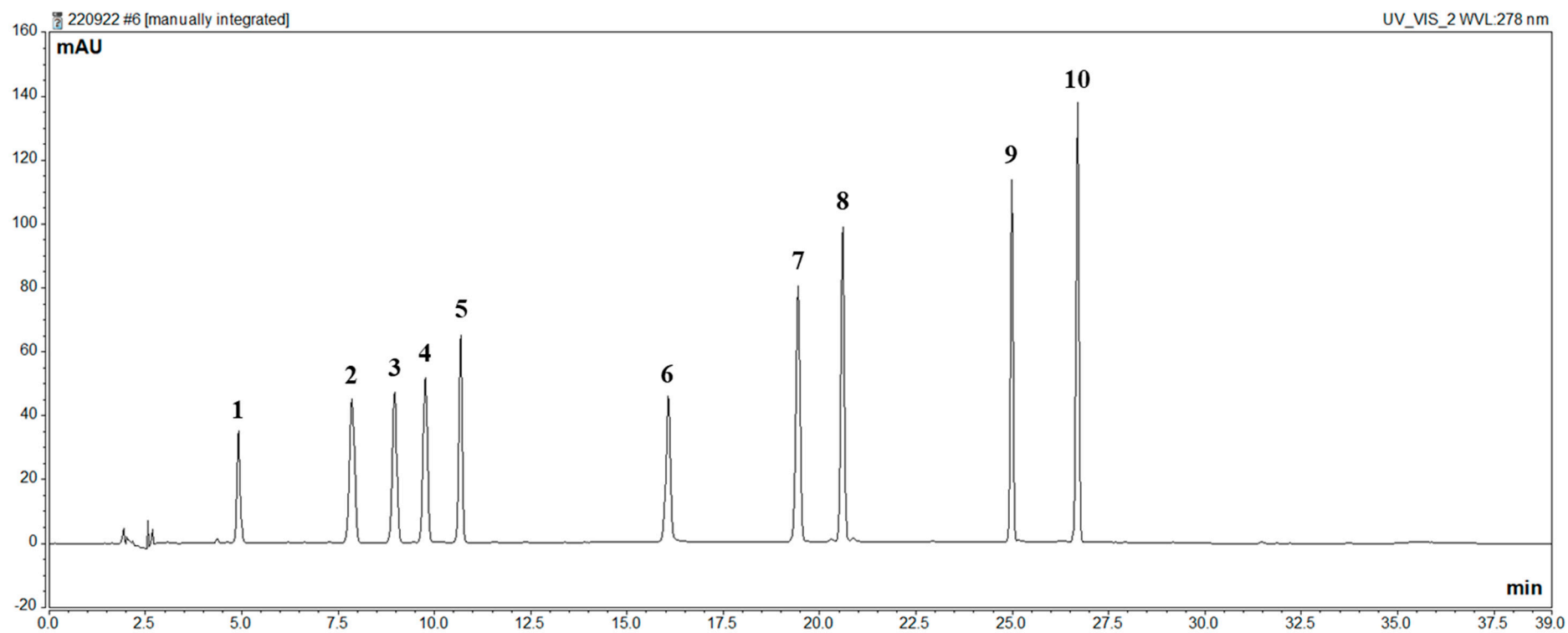


Figure S1. Representative HPLC chromatogram of 10 flavonoid standards. Plot annotation: 1, Rutin; 2, Narirutin; 3, Naringin; 4, Hesperidin; 5, Neohesperidin; 6, Quercetin; 7, Naringenin; 8, Hesperetin; 9, Nobiletin; 10, Tangeretin.

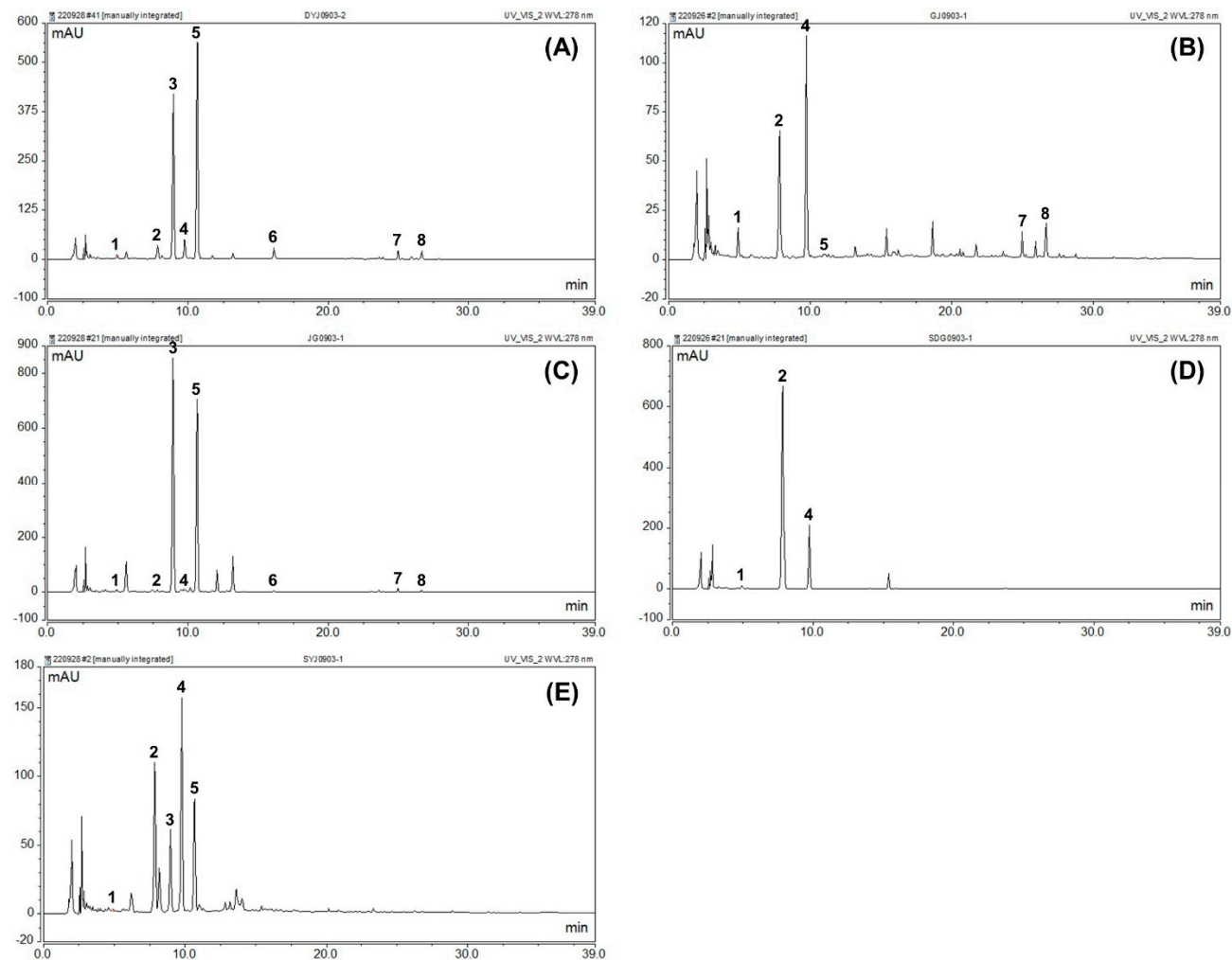


Figure S2. Representative HPLC chromatograms of 70% ethanolic extracts of (A) Dangyuja, (B) Gamja, (C) Jigak, (D) Sadugam, and (E) Soyuja harvested on 3 September. Chromatograms were achieved under optimized HPLC conditions. Plot annotation: 1, Rutin; 2, Narirutin; 3, Naringin; 4, Hesperidin; 5, Neohesperidin; 6, Quercetin; 7, Nobiletin; 8, Tangeretin.