

Supplementary Table S1. Flavonols, glycoalkaloids contents and antioxidant activity in 50 Tomato accessions

IT No.	Myricetin	Quercetin	Naringenin	Kaempferol	Isorhamnetin	Tomatine	Tomatidine	DPPH	ABTS	TPC	NO	RACI
IT033117	3.50 ± 0.12	-	-	10.4 ± 0.2	-	366.5 ± 51.7	46.1 ± 23.4	37.3 ± 1.5	57.4 ± 2.6	32.6 ± 0.9	33.3 ± 1.9	1.25
IT033130	3.28 ± 0.12	-	-	17.4 ± 0.9	-	766.2 ± 79.0	43.4 ± 6.8	33.9 ± 0.4	50.9 ± 2.9	37.2 ± 0.3	34.4 ± 1.9	1.01
IT033131	1.72 ± 0.01	-	-	4.9 ± 0.3	-	638.6 ± 91.6	82.2 ± 8.7	17.7 ± 0.6	28.9 ± 1.3	32.8 ± 0.1	33.8 ± 3.6	-0.41
IT116984	2.75 ± 0.05	-	-	7.5 ± 0.1	-	485.3 ± 20.3	110.4 ± 15.2	25.8 ± 0.1	37.4 ± 1.7	38.0 ± 1.3	30.6 ± 1.1	0.49
IT156677	3.76 ± 0.17	-	-	8.9 ± 2.7	-	379.8 ± 36.9	43.8 ± 7.9	20.6 ± 0.5	41.2 ± 0.5	34.4 ± 0.7	31.8 ± 1.4	0.23
IT173906	3.50 ± 0.09	-	-	20.5 ± 2.3	-	766.6 ± 39.8	66.1 ± 9.7	26.2 ± 1.3	48.2 ± 1.8	47.3 ± 0.4	33.2 ± 1.8	1.00
IT173907	2.77 ± 0.14	-	-	20.2 ± 1.7	-	606.4 ± 22.7	45.5 ± 2.7	18.4 ± 0.5	50.4 ± 1.6	46.8 ± 0.9	29.4 ± 1.9	0.96
IT173908	3.71 ± 0.06	-	-	13.5 ± 0.8	-	662.3 ± 33.6	49.8 ± 6.4	24 ± 0.3	52.3 ± 0.5	46.3 ± 0.9	26.5 ± 2.4	1.41
IT181222	3.19 ± 0.05	-	-	13.1 ± 0.3	-	609.4 ± 54.2	94.3 ± 9.2	23.1 ± 1	46.0 ± 1.8	29.2 ± 0.3	28.3 ± 1.2	0.51
IT189945	2.88 ± 0.13	-	-	11.3 ± 0.3	-	309.5 ± 13.4	63.9 ± 1.5	25.4 ± 0.4	35.1 ± 1.4	39.4 ± 1.1	24.8 ± 1.1	0.85
IT189949	3.92 ± 0.11	9.9 ± 1.2	-	16.8 ± 0.5	-	446.3 ± 20.1	39.3 ± 3.6	37.8 ± 0.4	59.7 ± 0.8	28.9 ± 0.6	27.1 ± 1.2	1.58
IT191046	4.78 ± 0.08	13.3 ± 0.7	-	21.9 ± 0.5	-	622.9 ± 43.9	41.9 ± 5.4	39.5 ± 0.2	53.1 ± 1.7	30.2 ± 0.8	27.4 ± 0.6	1.46
IT191047	3.93 ± 0.02	25.9 ± 1.5	59.3 ± 9.0	22.1 ± 0.3	-	342.0 ± 16.0	28.8 ± 3.1	34.7 ± 0.3	48.6 ± 1.9	28.1 ± 1.2	28.8 ± 1.1	0.97
IT199433	3.38 ± 0.08	11.6 ± 1.7	-	15.2 ± 0.2	-	534.0 ± 38.9	51.3 ± 10.0	24.9 ± 1	36.8 ± 2.4	29.5 ± 0.1	28.5 ± 1.6	0.30
IT199437	4.07 ± 0.06	-	-	12.9 ± 0.3	-	597.0 ± 39.1	61.3 ± 4.2	25.9 ± 0.5	42.8 ± 1.8	28.2 ± 0.1	29.3 ± 1.6	0.43
IT199442	3.80 ± 0.08	-	-	11.4 ± 0.4	-	482.8 ± 23.0	110.4 ± 10.9	16.5 ± 0.7	35.3 ± 0.7	25.7 ± 0.2	50.3 ± 1.6	-0.99
IT199445	3.19 ± 0.03	-	-	10.0 ± 0.7	-	599.8 ± 13.5	65.7 ± 17.3	24.5 ± 0.4	42.6 ± 0.8	32.6 ± 0.3	41.4 ± 4.1	-0.01
IT199447	3.11 ± 0.14	-	-	8.2 ± 0.3	-	466.9 ± 21.3	63.9 ± 2.8	20.1 ± 0.7	34.6 ± 1.1	23.4 ± 0.6	45.3 ± 2.1	-0.82
IT199449	2.35 ± 0.20	-	-	7.8 ± 1.0	-	351.4 ± 26.6	53.7 ± 1.5	21.8 ± 1.3	29.7 ± 1.4	29.2 ± 0.7	38.2 ± 0.3	-0.52
IT199451	3.08 ± 0.05	-	-	8.4 ± 0.1	-	308.9 ± 29.1	79.5 ± 5.2	24.0 ± 1.1	40.2 ± 1.5	27.6 ± 0.8	39.0 ± 1.6	-0.18
IT199462	2.84 ± 0.10	9.0 ± 0.3	-	11.0 ± 0.4	-	394.4 ± 39.1	62.0 ± 1.6	21.5 ± 1.1	39.9 ± 1.8	28.0 ± 0.2	40.9 ± 1.1	-0.34
IT199463	3.15 ± 0.03	-	-	10.9 ± 0.1	-	443.9 ± 49.5	49.7 ± 6.0	16.1 ± 1.0	35.9 ± 1.4	33.5 ± 0.6	36.2 ± 1.9	-0.34
IT200626	3.75 ± 0.10	-	-	10.3 ± 0.1	-	429.8 ± 51.5	46.5 ± 4.6	26.0 ± 1.3	46.9 ± 1.4	24.8 ± 0.3	38.6 ± 2.5	0.03

Supplementary Table S1. Flavonols, glycoalkaloids contents and antioxidant activity in 50 Tomato accessions

IT No.	Myricetin	Quercetin	Naringenin	Kaempferol	Isorhamnetin	Tomatine	Tomatidine	DPPH	ABTS	TPC	NO	RACI
IT201650	1.35 ± 0.03	-	-	3.2 ± 0.1	-	493.2 ± 39.7	49.0 ± 3.2	20.2 ± 0.2	41.4 ± 3.1	26.8 ± 0.1	38.7 ± 0.8	-0.31
IT203253	2.46 ± 0.15	-	-	7.1 ± 0.1	-	524.7 ± 54.9	102.7 ± 18.1	29.0 ± 1.2	42.6 ± 1.6	25.0 ± 1.2	39.1 ± 0.6	-0.01
IT203259	3.38 ± 0.09	-	-	11.5 ± 2.2	-	485.0 ± 93.5	76.7 ± 14.4	29.1 ± 1.2	50.4 ± 2.4	27.3 ± 0.5	38.0 ± 1.7	0.35
IT203262	2.51 ± 0.07	-	-	7.8 ± 0.7	-	356.7 ± 10.2	95.8 ± 23.6	27.6 ± 1.2	49.1 ± 1.2	16.8 ± 0.3	40.6 ± 1.3	-0.16
IT203466	3.26 ± 0.14	-	-	9.3 ± 0.4	-	690.9 ± 40.3	46.5 ± 7.2	25.7 ± 1.3	45.0 ± 3.0	31.4 ± 0.5	36.1 ± 1.9	0.26
IT203468	2.92 ± 0.44	183.1 ± 51.7	771.8 ± 197.6	27.4 ± 2.1	6.5 ± 1.01	430.3 ± 64.6	25.0 ± 6.1	20.2 ± 1.4	38.8 ± 2.1	40.6 ± 0.7	34.2 ± 0.5	0.22
IT207213	1.83 ± 0.09	-	-	8.9 ± 1.3	-	355.7 ± 43.8	81.1 ± 10.8	18.6 ± 0.9	42.3 ± 2.0	27.6 ± 1.1	38.9 ± 0.9	-0.33
IT207214	2.58 ± 0.09	-	-	11.6 ± 0.6	-	439.5 ± 92.0	69.5 ± 45.6	22.8 ± 0.5	32.6 ± 1.5	59.9 ± 0.0	34.8 ± 2.0	0.71
IT207224	2.62 ± 0.16	11 ± 1.3	-	13.5 ± 0.9	-	925.6 ± 17.3	51.1 ± 27.9	15.6 ± 1.6	38.4 ± 1.5	28.6 ± 0.3	37.1 ± 0.9	-0.47
IT207227	4.15 ± 0.08	17.2 ± 4.4	23.2 ± 16.8	13.3 ± 1.2	-	423.1 ± 22.2	52.6 ± 0.4	16.8 ± 0.7	41.1 ± 2.2	38.8 ± 0.2	39.4 ± 1.1	-0.10
IT207229	4.03 ± 0.76	74.4 ± 49.5	124.6 ± 88.8	22.8 ± 4.5	-	234.2 ± 14.6	57.0 ± 19.3	16.5 ± 0.5	46.5 ± 1.5	26.0 ± 1.5	36.8 ± 0.2	-0.25
IT207234	2.35 ± 0.10	9.6 ± 0.0	-	10.4 ± 0.1	-	756.5 ± 61.8	74.1 ± 23.8	13.7 ± 0.6	37.3 ± 1.5	25.7 ± 0.7	38.5 ± 1.8	-0.71
IT207236	2.65 ± 0.19	21.0 ± 1.8	-	15.7 ± 0.8	-	455.9 ± 29.8	94.9 ± 7.6	19.4 ± 0.8	38.5 ± 1.9	20.9 ± 0.1	40.7 ± 1.8	-0.68
IT207239	2.79 ± 0.13	171.9 ± 19.2	234.8 ± 8.6	17.4 ± 0.3	-	481.2 ± 82.6	51.3 ± 11.9	18.6 ± 1.4	44 ± 2.9	21.9 ± 0.5	38.2 ± 2.3	-0.43
IT207288	2.07 ± 0.10	79.4 ± 9.4	194.3 ± 26.4	22.2 ± 0.3	-	417.3 ± 93.4	40.0 ± 22.1	16.9 ± 0.8	27.7 ± 2.0	26.6 ± 0.3	39.3 ± 1.5	-0.89
IT211836	2.27 ± 0.21	100.7 ± 20.7	244.9 ± 95.4	20.3 ± 0.3	-	469.3 ± 20.1	44.2 ± 1.6	23.2 ± 1.7	35.1 ± 2.4	21.2 ± 0.4	71.5 ± 2.3	-1.18
IT229536	3.25 ± 0.10	122.4 ± 7.0	246.7 ± 28.5	24.3 ± 0.1	-	211.1 ± 22.5	30.4 ± 4.0	22.4 ± 1.3	38.8 ± 2.2	31.1 ± 0.6	40.5 ± 1.2	-0.23
IT229651	2.77 ± 0.12	32.2 ± 4.8	-	15.0 ± 0.2	1 ± 0.11	660.1 ± 20.2	64.2 ± 11.6	15.3 ± 1.3	25.4 ± 2.7	28.1 ± 0.4	39.0 ± 2.4	-0.96
IT229694	1.37 ± 0.07	283.5 ± 9.4	297.7 ± 20.3	18.0 ± 0.5	-	359.9 ± 90.0	80.1 ± 41.9	22.7 ± 1.4	34.7 ± 1.0	38.4 ± 0.2	39.9 ± 1.7	-0.10
IT229711	1.39 ± 0.14	413.2 ± 6.5	911 ± 11.7	19.2 ± 0.0	7.3 ± 0.11	209.4 ± 55.5	72.7 ± 75.6	27.8 ± 1.0	44.4 ± 1.5	19.7 ± 0.2	37.8 ± 1.5	-0.12
IT235444	1.33 ± 0.07	375.0 ± 20.6	878.7 ± 37.7	14.3 ± 0.6	7.3 ± 0.79	214.0 ± 29.5	45.8 ± 36.9	21.1 ± 0.5	35.9 ± 2.5	26.1 ± 0.3	38.3 ± 0.6	-0.46
IT236523	2.78 ± 0.05	27.5 ± 1.9	-	81.2 ± 1.3	6.5 ± 0.3	604.2 ± 3.3	66.5 ± 79.7	29.6 ± 1.2	48.0 ± 2.1	33.8 ± 0.6	45.4 ± 1.6	0.29
IT247989	3.26 ± 0.03	-	-	7.5 ± 0.2	-	326.7 ± 83.1	46.8 ± 13.5	16.9 ± 0.4	35.7 ± 1.8	33.8 ± 0.2	37.4 ± 1.6	-0.35

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IT No.	Myricetin	Quercetin	Naringenin	Kaempferol	Isorhamnetin	Tomatine	Tomatidine	DPPH	ABTS	TPC	NO	RACI
IT259085	2.23 ± 0.11	48.5 ± 8.4	51.3 ± 15.6	8.9 ± 0.3	-	365.6 ± 65.6	60.5 ± 47.2	17.4 ± 0.8	29.8 ± 2.3	28.4 ± 0.9	37.1 ± 1.1	-0.67
IT259255	1.78 ± 0.04	97.6 ± 7.9	168.3 ± 4.4	15.2 ± 0.2	-	836.7 ± 32.5	70.5 ± 14.9	10.3 ± 0.5	21.3 ± 0.7	24.7 ± 0.8	36.9 ± 2.9	-1.32
IT265355	-	373.9 ± 20.1	1306.4 ± 54.2	21.7 ± 1.1	10.3 ± 0.37	505.5 ± 43.8	51.7 ± 48.9	16.2 ± 0.5	44.7 ± 2.6	26.5 ± 0.2	37.2 ± 0.6	-0.32
IT265357	-	366.0 ± 16.1	932.2 ± 58.4	44.4 ± 0.5	8.3 ± 0.45	313.3 ± 13.3	64.5 ± 3.7	14.7 ± 0.4	40.1 ± 0.9	23.6 ± 0.3	38.0 ± 1.6	-0.64
LSD	0.26	29.1	111.1	1.8	1.0	91.0	39.1	1.5	3.0	1.0	2.8	