

Correlations between the total antioxidant activity and biochemical parameters of cow milk depending on the number of somatic cells

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Table S1. The main biochemical parameters and component composition of milk samples from 33 black-and-white cows (group 1).

№	TFP, %	TP1, %	TN2, %	TAWSA mg/g	Lactose, %	SNF, %	TDM, %	FP, °C	pH, units	SCC, 10³ cell/ml
1	4.25	3.07	3.28	13.50	4.97	9.11	13.38	-0.534	6.68	27
2	6.21	2.88	3.12	6.80	4.79	8.64	14.96	-0.533	6.5	39
3	4.95	3.22	3.46	9.40	4.94	9.21	14.23	-0.552	6.61	64
4	4.32	3.12	3.35	13.30	5.04	9.18	13.57	-0.538	6.63	131
5	6.49	2.75	2.99	11.00	4.72	8.61	15.12	-0.544	6.54	52
6	4.78	3.52	3.75	16.00	4.85	9.46	14.33	-0.543	6.52	153
7	6.62	3.89	4.13	21.30	4.59	9.66	16.32	-0.546	6.47	98
8	4.64	3.03	3.24	15.20	5.32	9.39	13.98	-0.555	6.64	33
9	5.61	4.49	4.75	19.40	5.05	10.8	16.57	-0.562	6.84	120
10	4.83	3.23	3.45	13.30	4.6	8.82	13.71	-0.539	6.58	192
11	5.03	2.65	2.89	27.91	5.04	8.67	13.83	-0.527	6.61	37
12	7.01	3.21	3.49	22.07	4.61	8.99	16.1	-0.537	6.51	43
13	4.71	3.62	3.84	17.83	4.88	9.57	14.35	-0.529	6.53	194
14	4.98	3.46	3.68	16.24	4.95	9.57	14.57	-0.539	6.56	165
15	3.62	3.04	3.23	16.19	5.01	9.11	12.68	-0.536	6.58	44
16	4.77	2.83	3.08	16.45	4.93	8.77	13.62	-0.543	6.56	182
17	4.43	3.38	3.62	14.73	5	9.49	14	-0.536	6.55	82
18	5.31	3.06	3.3	18.24	4.96	9.12	14.52	-0.540	6.55	54
19	4.88	2.84	3.04	13.78	4.73	8.6	13.45	-0.536	6.61	46
20	4.93	3.13	3.38	17.31	4.82	9.02	14.11	-0.538	6.51	73
21	4.98	2.67	2.9	15.81	4.99	8.7	13.68	-0.543	6.61	49
22	5.64	3.06	3.31	20.92	5.04	9.21	14.82	-0.556	6.6	68

23	7.30	3.22	3.45	20.26	5.18	9.56	16.93	-0.568	6.58	119
24	5.77	3.53	3.76	21.03	5.07	9.76	15.52	-0.543	6.63	128
25	4.71	3.02	3.24	15.44	4.73	8.76	13.57	-0.530	6.57	70
26	4.90	3.94	4.19	18.97	4.84	9.95	14.93	-0.538	6.51	110
27	4.73	3.34	3.56	8.91	4.9	9.34	14.11	-0.541	6.53	182
28	4.74	3.4	3.61	13.38	4.64	9.1	13.79	-0.537	6.6	109
29	5.86	2.68	2.91	16.85	4.53	8.24	14.08	-0.529	6.49	42
30	4.45	3.12	3.34	10.77	4.89	9.04	13.5	-0.535	6.55	73
31	5.11	2.72	2.97	13.79	4.92	8.62	13.83	-0.537	6.5	27
32	4.50	3.26	3.5	13.99	4.61	8.97	13.52	-0.535	6.49	146
33	5.20	3.77	3.98	16.16	4.51	9.4	14.66	-0.526	6.52	128

Table S2. The main biochemical parameters and component composition of milk samples from 15 black-and-white cows (group 2).

№	TFP, %	TP1, %	TN2, %	TAWSA mg/g	Lactose, %	SNF, %	TDM, %	FP, °C	pH, units	SCC, 10 ³ cell/ml
1	4.37	3.42	3.63	8.90	4.61	9.06	13.51	-0.519	6.57	243
2	5.28	3.18	3.41	11.90	4.87	9.14	14.56	-0.541	6.61	348
3	5.52	2.96	3.19	13.10	5.23	9.26	14.8	-0.556	6.67	291
4	5.36	3.78	4.03	18.99	4.28	9.15	14.61	-0.529	6.42	408
5	4.50	3.45	3.69	17.44	4.74	9.35	13.97	-0.538	6.52	244
6	4.84	3.31	3.53	15.83	4.67	9.1	13.98	-0.536	6.51	208
7	3.61	3.19	3.42	14.35	4.84	9.11	12.79	-0.533	6.5	231
8	5.04	3.61	3.84	17.30	4.89	9.63	14.68	-0.544	6.53	478
9	4.84	3.16	3.4	17.08	4.93	9.12	14	-0.542	6.5	452
10	5.27	3.18	3.39	18.36	4.79	9.06	14.29	-0.552	6.6	325
11	3.91	3.48	3.73	16.73	4.76	9.37	13.44	-0.538	6.52	297
12	3.83	3.38	3.63	10.65	4.91	9.33	13.21	-0.551	6.56	499
13	4.75	3.33	3.57	10.46	5.07	9.46	14.25	-0.542	6.45	299

14	6.00	2.6	2.84	14.81	4.69	8.36	14.36	-0.541	6.5	417
15	3.65	2.9	3.12	10.82	4.68	8.54	12.28	-0.522	6.48	260

Table S3. The main biochemical parameters and component composition of milk samples from 13 black-and-white cows (group 3).

№	TFP, %	TP1, %	TN2, %	TAWSA mg/g	Lactose, %	SNF, %	TDM, %	FP, °C	pH, units	SCC, 10 ³ cell/ml
1	4.68	4.06	4.27	17.70	3.51	8.58	13.3	-0.526	6.5	687
2	5.61	3.39	3.61	15.30	4.73	9.24	14.88	-0.551	6.49	940
3	5.08	2.87	3.06	15.40	4.55	8.41	13.53	-0.542	6.54	903
4	6.35	3.49	3.72	13.60	4.01	8.61	15.09	-0.546	6.47	973
5	6.46	3.55	3.78	16.70	4.15	8.78	15.28	-0.547	6.42	556
6	5.37	4.57	4.81	14.80	4.55	10.36	15.82	-0.552	6.65	933
7	4.06	3	3.24	16.09	5.14	9.18	13.27	-0.538	6.58	658
8	4.74	3.4	3.63	17.37	4.72	9.2	14.03	-0.540	6.56	910
9	6.08	4.47	4.75	16.46	4.85	10.6	16.76	-0.551	6.68	681
10	4.76	2.48	2.71	22.25	4.43	7.92	12.72	-0.519	6.52	542
11	5.35	3.62	3.85	14.24	4.46	9.3	14.72	-0.544	6.42	809
12	4.86	3.42	3.62	13.89	4.97	9.46	14.35	-0.544	6.67	973
13	6.84	4.26	4.54	14.79	4.57	10.07	17.02	-0.541	6.49	903

Table S4. The main biochemical parameters and component composition of milk samples from 12 black-and-white cows (group 4).

№	TFP, %	TP1, %	TN2, %	TAWSA mg/g	Lactose, %	SNF, %	TDM, %	FP, °C	pH, units	SCC, 10 ³ cell/ml
1	5.00	4.16	4.39	13.00	4.05	9.35	14.47	-0.519	6.58	3149
2	4.92	3.47	3.7	5.80	4.92	9.48	14.54	-0.542	6.56	-*
3	5.13	2.38	3.6	12.50	4.47	8.93	14.18	-0.545	6.52	-*
4	6.29	3.97	4.25	17.80	3.63	8.68	15.06	-0.524	6.54	1567
5	6.97	3.35	3.55	11.30	4.63	9	14.01	-0.535	6.62	1326
6	5.34	4.24	4.48	14.20	4.19	8.47	13.88	-0.517	6.44	7493

7	4.71	3.49	3.72	20.30	4.3	8.83	13.61	-0.537	6.42	4803
8	4.69	3.18	3.45	16.90	4.15	8.44	16.27	-0.517	6.36	2614
9	6.28	2.94	3.18	18.73	4.69	8.72	14.08	-0.541	6.47	1358*
10	4.86	3	3.21	13.08	4.87	8.99	13.89	-0.538	6.65	1004
11	3.80	3.57	3.83	18.68	5.04	9.79	13.69	-0.554	6.57	2466
12	4.21	2.79	3.01	12.70	4.71	8.44	12.71	-0.536	6.52	4910

Notes: total fat percentage (TFP); true protein percentage (TP1); total nitrogen percentage (TN2); lactose; solids-not-fat (SNF); total dry matter (TDM); freezing point (FP); somatic cell count (SCC).