

Supplementary Table S1. Phytochemical profile of feeds (mg per 100 g).

	GRAIN¹	GRAPE²	<i>p</i>-Value
Isocitric acid lactone	6.44 ± 1.09	6.80 ± 1.48	0.850
Sucrose	32.07 ± 3.19	32.26 ± 5.91	0.978
D-Maltose	38.50 ± 3.90	37.58 ± 6.29	0.906
Citric acid	2.45 ± 0.31	2.01 ± 0.70	0.594
D-Tartaric acid	1.25 ± 0.07	1.17 ± 0.16	0.653
Succinic acid	3.86 ± 0.42	3.74 ± 0.43	0.848
Adipic acid	2.13 ± 0.54	2.30 ± 0.76	0.862
(-)-Epicatechin gallate	26.67 ± 25.00	188.13 ± 124.82	0.288
Epicatechin	2.43 ± 2.35	13.19 ± 7.57	0.254
Naringenin	0.10 ± 0.01	0.11 ± 0.02	0.688
Hesperidin	0.54 ± 0.09	0.43 ± 0.12	0.480
Hesperetin	0.14 ± 0.00	0.14 ± 0.01	0.674
Apigenin	0.23 ± 0.03	0.18 ± 0.06	0.514
Catechol	1.57 ± 0.08	1.57 ± 0.10	0.986
Chrysin	0.04 ± 0.00	0.05 ± 0.00	0.400
Diosmetin	0.60 ± 0.04	0.57 ± 0.02	0.424
Isorhamnetin 3-rutinoside	17.37 ± 3.18	12.49 ± 2.28	0.235
Eriodictyol-7-o-glucoside	0.11 ± 0.03	0.13 ± 0.06	0.832
Isorhamnetin	2.25 ± 0.50	1.71 ± 0.15	0.325
Biochanin A	0.01 ± 0.00	0.00 ± 0.00	0.945
Kaempferol	0.30 ± 0.05	0.51 ± 0.25	0.464
Pyrogallol	0.06 ± 0.01	0.05 ± 0.01	0.727
3,4-Dihydroxybenzoic acid	5.31 ± 0.39	5.43 ± 0.65	0.884
Salicylic acid	3.47 ± 0.13	3.16 ± 0.29	0.371
Vanillic acid	7.22 ± 0.28	6.34 ± 0.31	0.065
2,6-Dihydroxybenzoic acid	10.10 ± 0.97	12.57 ± 1.14	0.139

Quercetin	4.20 ± 0.35	6.95 ± 2.54	0.359
Caffeic acid	0.20 ± 0.02	0.16 ± 0.01	0.162
Ellagic acid	0.07 ± 0.07	1.92 ± 1.62	0.338
Pyrocatechol sulfate	3.34 ± 0.22	3.35 ± 0.57	0.990
Syringic acid	2.23 ± 0.10	2.18 ± 0.25	0.849
Ethyl gallate	0.01 ± 0.01	0.09 ± 0.04	0.265
Chlorogenic acid	48.52 ± 7.34	35.96 ± 3.67	0.150
Coixol	0.43 ± 0.11	0.28 ± 0.03	0.225
3,5-Dihydroxybenzoic acid	5.21 ± 0.31	5.75 ± 0.31	0.248
Vanillin	5.58 ± 0.55	6.74 ± 0.47	0.136
4-Hydroxybenzoic acid	6.81 ± 0.63	6.67 ± 0.94	0.913
Gallocatechin gallate	1.67 ± 0.38	4.42 ± 2.11	0.285
Arbutin	0.53 ± 0.04	0.50 ± 0.06	0.698
p-Coumaric acid	8.70 ± 0.30	8.01 ± 0.30	0.132
Shikimic acid	1.70 ± 0.13	1.59 ± 0.36	0.801
Thiamine	0.07 ± 0.00	0.07 ± 0.00	0.816
Niacin	0.06 ± 0.01	0.01 ± 0.00	< 0.010
Nicotinic acid	0.11 ± 0.00	0.14 ± 0.03	0.428
Pyridoxine	0.01 ± 0.00	0.01 ± 0.00	0.490
Riboflavin	1.41 ± 0.15	0.99 ± 0.13	0.062
Alpha-tocopherol	1.29 ± 0.14	1.19 ± 0.26	0.756
Pantothenic acid	0.16 ± 0.01	0.14 ± 0.00	0.096
Stachydrine	1.03 ± 0.10	1.05 ± 0.10	0.848
Trigonelline	0.11 ± 0.01	0.11 ± 0.01	0.686
Tyramine	0.00 ± 0.00	0.06 ± 0.06	0.420
Betaine	0.58 ± 0.03	0.44 ± 0.04	< 0.050
Tricine	0.31 ± 0.06	0.27 ± 0.09	0.701
Tamarixetin	1.74 ± 0.28	1.27 ± 0.20	0.203

Sophoricoside	6.54 ± 1.86	6.57 ± 3.10	0.995
Quercetin-3-O-lactoside	2.74 ± 0.27	5.03 ± 1.96	0.327
Scopoletin	0.02 ± 0.00	0.02 ± 0.00	0.835
Calycosin	0.07 ± 0.03	0.07 ± 0.05	0.981
Glycitein	0.35 ± 0.11	0.29 ± 0.13	0.762
Naringenin-7-O-glucoside	37.38 ± 7.68	31.60 ± 2.46	0.488
Xanthohumol	0.06 ± 0.02	0.03 ± 0.00	0.195
Schaftoside	2.89 ± 0.32	2.10 ± 0.46	0.209
Chrysoeriol	2.56 ± 0.22	2.33 ± 0.12	0.363
Isovitexin/Nitexin	6.60 ± 0.52	5.53 ± 1.15	0.438
Jasmonic acid	0.70 ± 0.09	0.51 ± 0.14	0.299
Morin	0.91 ± 0.04	0.89 ± 0.10	0.836

Values reported as means ± standard error. Results of two-sample t-test. Statistical significance at $p < 0.05$. ¹GRAIN: total mixed ration (TMR) ($n = 11$); ²GRAPE: TMR + 5% DM grapeseed extracts ($n = 4$). N.B.: no GRASS (diverse pasture) samples were left for the phytochemical analysis.