

Table S1. Descriptive statistics of the literature database for dairy cattle (n = 1,185)

Variables	n	mean	median	min	max
No. of animals per treatment	1185	14.7	12.0	3.0	93.0
Days in milk (day)	995	138.4	143.0	9.5	357.0
Days in pregnancy (day)	41	251.3	269.0	86.0	279.0
Parity number	327	2.8	2.3	1.0	12.0
Body weight (kg)	1185	620.9	640.5	102.5	878.0
Average daily gain (kg/day)	632	0.1	0.2	-6.5	3.4
Milk yield (kg/day)	1043	34.0	34.2	9.0	58.5
Milk composition (%)					
Lactose	935	4.73	4.75	3.69	5.31
Fat	1030	3.96	3.91	2.27	6.90
Crude protein	1026	3.27	3.23	2.63	4.67
Dry matter intake (kg/d)	1185	20.8	21.9	1.5	32.0
Forage intake (kg/d)	1148	11.6	11.7	0.9	22.0
Dietary composition (%)					
Dry matter	795	50.1	50.0	13.5	96.3
Organic matter	851	92.3	92.5	83.5	98.9
Crude protein	1131	16.2	16.4	8.8	26.8
Neutral detergent fiber	1139	34.8	33.6	20.2	62.4
Fat	746	3.67	3.50	0.25	8.90
Ash	851	7.70	7.50	1.10	16.48
Starch	789	22.2	23.2	0.2	43.3
Dietary energy (Mcal/kg)					
Total digestible nutrients (%)	108	67.0	67.0	59.0	78.4
Gross energy	212	4.38	4.40	3.94	5.05
Digestible energy	99	3.09	3.07	2.68	3.62
Metabolisable energy	255	2.61	2.60	2.14	4.03