

Higher PUFA and omega-3 PUFA, CLA, α -tocopherol and iron, but lower iodine and selenium concentrations in organic milk: A Systematic Literature Review and Meta- and Redundancy Analyses

SUPPLEMENTARY TABLE S10 version B

TABLE OF CONTENTS

Table S10b. Mean values and confidence intervals (CI) calculated using the data for papers from the standard meta-analysis of composition parameters shown in Fig. 2 and 3 of the main paper.2

Table S10b. Mean values and confidence intervals (CI) calculated using the data for papers from the standard meta-analysis of composition parameters shown in Fig. 2 and 3 of the main paper.

Parameter	Unit	n	Organic		Conventional	
			Mean	95% CI	Mean	95% CI
Milk yield*	kg/cow/day	19	17.01	14.94, 19.08	21.35	18.47, 24.23
Milk yield*	kg/cow/lactation	8	6419	5758, 7080	7322	6638, 8005
SFA	mg/g FA	19	669.96	652.07, 687.85	674.21	658.02, 690.4
12:0 (lauric acid)	mg/g FA	11	29.97	27.9, 32.04	31.11	28.2, 34.02
14:0 (myristic acid)	mg/g FA	12	107.58	102.3, 112.87	106.41	102.17, 110.66
16:0 (palmitic acid)	mg/g FA	14	297.31	278.75, 315.87	310.11	293.04, 327.18
MUFA	mg/g FA	19	279.12	263.88, 294.36	275.64	263.07, 288.21
OA (cis-9-18:1)	mg/g FA	10	229.75	201.87, 257.63	224.47	195.5, 253.44
VA (trans-11-18:1)	mg/g FA	12	23.19	19.01, 27.37	15.65	12.63, 18.68
PUFA	mg/g FA	19	41.41	36.16, 46.66	38.49	34.63, 42.36
CLA (total)	mg/g FA	11	10.45	7.99, 12.91	7.83	5.53, 10.13
CLA9 (cis-9-trans-11-18:2)	mg/g FA	14	8.97	6.52, 11.41	7.34	5.26, 9.41
CLA10 (trans-10-cis-12-18:2)	mg/g FA	3	0.39	-0.07, 0.85	0.26	0.01, 0.52
n-3 FA	mg/g FA	12	9.97	8.26, 11.68	6.74	5.01, 8.47
ALA (cis-9,12,15-18:3)	mg/g FA	21	7.14	6.27, 8.01	4.30	3.7, 4.91
EPA (cis-5,8,11,14,17-20:5)	mg/g FA	8	0.86	0.66, 1.06	0.58	0.4, 0.76
DPA (cis-7,10,13,16,19-22:5)	mg/g FA	5	1.14	0.99, 1.3	0.83	0.59, 1.08
DHA (cis-4,7,10,13,16,19-22:6)	mg/g FA	3	0.14	0.1, 0.18	0.12	0.08, 0.15

n, number of data points included in the comparison; MPD, mean percentage difference; SFA, saturated fatty acids; MUFA, monounsaturated fatty acids; OA, oleic acid; VA, vaccenic acid; PUFA, polyunsaturated fatty acids; FA, fatty acids; CLA, conjugated linoleic acid; ALA, α -linolenic acid; EPA, eicosapentaenoic acid; DPA, docosapentaenoic acid; DHA, docosahexaenoic acid. *Data for energy-, fat-, protein- corrected milk yield and milk solids yield were removed from calculations.

Table S10b cont. Mean values and confidence intervals (CI) calculated using the data for papers from the standard meta-analysis of composition parameters shown in Fig. 2 and 3 of the main paper.

Parameter	Unit	n	Organic		Conventional	
			Mean	95% CI	Mean	95% CI
n-6 FA	mg/g FA	12	21.67	18.46, 24.89	22.29	19.41, 25.18
LA (cis-9,12-18:2)	mg/g FA	12	19.12	17.28, 20.96	22.09	18.44, 25.73
AA (cis-5,8,11,14-20:4)	mg/g FA	5	1.06	0.8, 1.32	1.30	0.99, 1.62
n-6/n-3 ratio	-	7	3.73	1.51, 5.95	5.28	3.37, 7.18
n-3/n-6 ratio	-	5	0.59	0.43, 0.74	0.36	0.22, 0.5
α-tocopherol	µg/g fat	9	24.75	18.63, 30.86	22.37	16.28, 28.45
Carotenoids	µg/g fat	5	6.70	4.26, 9.15	6.75	2.89, 10.61
β-carotene	µg/g fat	7	5.87	4.83, 6.91	6.01	4.27, 7.75
Lutein	µg/g fat	3	0.74	0.45, 1.02	0.74	0.17, 1.31
Iodine (I)	µg/L	6	146.51	75.93, 217.09	246.17	134.3, 358.04
Iron (Fe)	mg/kg	8	0.74	0.37, 1.12	0.64	0.32, 0.96
Selenium (Se)	µg/kg	4	11.97	7.67, 16.27	14.11	10.13, 18.09
Urea*	mg/kg	7	209.53	196.03, 223.02	229.73	199.65, 259.82
SCC	cells/ml ×10 ³	20	236.02	186.62, 285.42	253.59	161.39, 345.8

n, number of data points included in the comparison; MPD, mean percentage difference; FA, fatty acids; LA, linoleic acid; AA, arachidonic acid; ALA, α-linolenic acid; SCC, somatic cell count. *One outlying value (1000 times greater than other values) was removed.

