

Table S1. Fatty acid composition (%) of fat extracted from cream, sour cream, and stored sour cream samples enriched with essential oil from lemon peel, clove bud, and juniper berry.

Fatty acids	Cream	Sour cream	Stored sour cream	Lemon peel			
				12.5%	25%	50%	100%
C4:0 (Butyric)	1.11 ± 0.07 ^a	1.11 ± 0.03 ^a	1.03 ± 0.05 ^a	1.10 ± 0.05 ^a	1.21 ± 0.04 ^{a,b}	1.33 ± 0.08 ^{b,c}	1.40 ± 0.06 ^{b,c}
C6:0 (Caproic)	1.25 ± 0.09 ^a	1.27 ± 0.02 ^a	1.21 ± 0.01 ^a	1.20 ± 0.01 ^a	1.36 ± 0.05 ^b	1.30 ± 0.05 ^b	1.32 ± 0.04 ^b
C8:0 (Caprylic)	1.10 ± 0.09 ^a	1.00 ± 0.05 ^a	0.96 ± 0.07 ^a	0.93 ± 0.05 ^a	1.00 ± 0.08 ^a	0.99 ± 0.02 ^a	1.02 ± 0.05 ^{a,b}
C10:0 (Capric)	2.48 ± 0.04 ^b	2.47 ± 0.03 ^b	2.44 ± 0.04 ^{a,b}	2.39 ± 0.05 ^a	2.49 ± 0.09 ^c	2.49 ± 0.09 ^c	2.59 ± 0.03 ^d
C12:0 (Lauric)	3.28 ± 0.03 ^c	3.23 ± 0.02 ^b	3.25 ± 0.04 ^{b,c}	3.20 ± 0.02 ^{a,b}	3.30 ± 0.06 ^{c,d}	3.23 ± 0.02 ^b	3.41 ± 0.06 ^e
C14:0 (Myristic)	11.62 ± 0.03 ^a	11.78 ± 0.01 ^c	11.75 ± 0.03 ^c	11.71 ± 0.03 ^{b,c}	11.71 ± 0.06 ^{b,c}	11.62 ± 0.03 ^a	11.74 ± 0.06 ^c
C14:1 (Myristoleic)	1.03 ± 0.03 ^a	0.98 ± 0.04 ^a	0.95 ± 0.03 ^a	0.98 ± 0.02 ^a	0.98 ± 0.06 ^a	1.03 ± 0.06 ^a	1.00 ± 0.05 ^a
C15:0 (Pentadecylic)	1.46 ± 0.04 ^c	1.43 ± 0.02 ^c	1.39 ± 0.01 ^{b,c}	1.36 ± 0.01 ^b	1.27 ± 0.02 ^a	1.43 ± 0.01 ^c	1.39 ± 0.05 ^{b,c}
C16:0 (Palmitic)	33.67 ± 0.13 ^a	34.30 ± 0.07 ^c	34.53 ± 0.09 ^d	34.40 ± 0.06 ^{c,d}	34.17 ± 0.39 ^{b,c}	34.13 ± 0.05 ^{b,c}	33.69 ± 0.05 ^a
C16:1 (Palmitoleic)	2.16 ± 0.05 ^{b,c}	2.09 ± 0.03 ^a	2.10 ± 0.03 ^{a,b}	2.19 ± 0.03 ^c	2.05 ± 0.06 ^a	2.23 ± 0.05 ^d	2.14 ± 0.00 ^b
C17:0 (Margaric)	0.76 ± 0.03 ^b	0.79 ± 0.06	0.69 ± 0.04 ^{a,b}	0.76 ± 0.04 ^b	0.64 ± 0.01 ^a	0.80 ± 0.01 ^{b,c}	0.83 ± 0.04 ^c
C18:0 (Stearic)	10.63 ± 0.08 ^b	10.92 ± 0.04 ^{d,e}	11.07 ± 0.09 ^e	10.89 ± 0.02 ^d	10.69 ± 0.14 ^c	10.37 ± 0.01 ^a	10.67 ± 0.03 ^{b,c}
C18:1 11t (<i>trans</i> -Vaccenic)	2.27 ± 0.13 ^a	2.32 ± 0.02 ^a	2.20 ± 0.07 ^a	2.23 ± 0.15 ^a	2.30 ± 0.15 ^a	2.15 ± 0.09 ^a	2.27 ± 0.07 ^a
C18:1 9c (Oleic)	22.01 ± 0.13 ^{c,d}	21.46 ± 0.09 ^a	21.59 ± 0.07 ^{a,b}	21.88 ± 0.05 ^{c,d}	21.90 ± 0.27 ^d	22.13 ± 0.08 ^d	21.59 ± 0.09 ^{a,b}
C18:1 n7 (<i>cis</i> -Vaccenic)	0.62 ± 0.02 ^a	0.56 ± 0.05 ^a	0.57 ± 0.02 ^a	0.61 ± 0.02 ^a	0.63 ± 0.01 ^a	0.61 ± 0.02 ^a	0.58 ± 0.02 ^a
C18:1 12c	0.76 ± 0.06 ^a	0.67 ± 0.05 ^a	0.68 ± 0.02 ^a	0.64 ± 0.02 ^a	0.62 ± 0.04 ^a	0.61 ± 0.05 ^a	0.67 ± 0.04 ^a
C18:2 9c 12c (Linoleic)	1.64 ± 0.03 ^c	1.60 ± 0.05 ^b	1.59 ± 0.04 ^b	1.58 ± 0.01 ^b	1.61 ± 0.05 ^{b,c}	1.53 ± 0.08 ^a	1.63 ± 0.03 ^{c,d}
C18:3 9c 12c 15c (α -Linolenic)	1.01 ± 0.03 ^d	0.92 ± 0.04 ^{b,c}	0.93 ± 0.02 ^c	0.92 ± 0.02 ^{b,c}	1.00 ± 0.07 ^d	0.90 ± 0.02 ^{a,b}	0.96 ± 0.04 ^{c,d}
C18:2 9c 11t (CLA)	0.93 ± 0.03 ^a	0.89 ± 0.04 ^a	0.86 ± 0.01 ^a	0.85 ± 0.01 ^a	0.87 ± 0.02 ^a	0.89 ± 0.02 ^a	0.88 ± 0.03 ^a
C20:1 n9	0.22 ± 0.01 ^a	0.20 ± 0.01 ^a	0.19 ± 0.01 ^a	0.19 ± 0.01 ^a	0.17 ± 0.01 ^a	0.21 ± 0.01 ^a	0.20 ± 0.01 ^a
SFA	67.36 ^a	68.30 ^a	68.32 ^a	67.94 ^a	67.84 ^a	67.69 ^a	68.06 ^a
MUFA	29.07 ^a	28.28 ^a	28.28 ^a	28.72 ^a	28.65 ^a	28.97 ^a	28.45 ^a
PUFA	3.58 ^c	3.41 ^b	3.38 ^b	3.35 ^{a,b}	3.48 ^b	3.32 ^a	3.47 ^{b,c}

Fatty acids	Cream	Sour cream	Stored sour cream	Lemon peel			
				12.5%	25%	50%	100%
Fat extraction yield (%)	24.68 ^a	30.58 ^a	34.47 ^a	31.24 ^a	25.86 ^a	22.60 ^a	22.04 ^a

¹Data are displayed as mean ± SD. Mean values marked by the different lower-case superscripts letters (a-e) within a row denote statistically significant differences ($p < 0.05$) in two-way ANOVA.

Table S1 (continued). Fatty acid composition (%) of fat extracted from cream, sour cream, and stored sour cream samples enriched with essential oil from lemon peel, clove bud, and juniper berry.

Fatty acids	Clove bud				Juniper berry			
	12.5%	25%	50%	100%	12.5%	25%	50%	100%
C4:0 (Butyric)	1.11 ± 0.04 ^a	1.15 ± 0.04 ^{a,b}	1.26 ± 0.02 ^{a,b}	1.38 ± 0.08 ^b	1.11 ± 0.01 ^a	1.29 ± 0.01 ^{a,b}	1.42 ± 0.07 ^c	1.53 ± 0.07 ^d
C6:0 (Caproic)	1.23 ± 0.03 ^a	1.23 ± 0.03 ^a	1.25 ± 0.08 ^a	1.32 ± 0.01 ^b	1.29 ± 0.04 ^{a,b}	1.29 ± 0.03 ^{a,b}	1.31 ± 0.04 ^b	1.42 ± 0.12 ^c
C8:0 (Caprylic)	0.98 ± 0.02 ^a	0.96 ± 0.03 ^a	0.97 ± 0.04 ^a	1.00 ± 0.04 ^a	0.94 ± 0.02 ^a	0.96 ± 0.06 ^a	0.96 ± 0.05 ^a	1.11 ± 0.08 ^b
C10:0 (Capric)	2.46 ± 0.03 ^b	2.46 ± 0.07 ^b	2.56 ± 0.05 ^d	2.70 ± 0.02 ^e	2.34 ± 0.01 ^a	2.45 ± 0.03 ^b	2.46 ± 0.03 ^b	2.55 ± 0.06 ^d
C12:0 (Lauric)	3.27 ± 0.04 ^c	3.22 ± 0.04 ^b	3.37 ± 0.01 ^d	3.38 ± 0.04 ^d	3.14 ± 0.06 ^a	3.27 ± 0.05 ^c	3.25 ± 0.02 ^{b,c}	3.29 ± 0.05 ^c
C14:0 (Myristic)	11.72 ± 0.05 ^b	11.68 ± 0.07 ^b	11.84 ± 0.03 ^d	11.75 ± 0.03 ^c	11.58 ± 0.04 ^a	11.60 ± 0.02 ^a	11.64 ± 0.01 ^{a,b}	11.64 ± 0.09 ^{a,b}
C14:1 (Myristoleic)	0.99 ± 0.02 ^a	0.96 ± 0.01 ^a	0.98 ± 0.04 ^a	1.00 ± 0.02 ^a	0.97 ± 0.02 ^a	1.02 ± 0.05 ^a	1.00 ± 0.07 ^a	0.98 ± 0.04 ^a
C15:0 (Pentadecylic)	1.38 ± 0.02 ^b	1.34 ± 0.01 ^b	1.37 ± 0.02 ^b	1.42 ± 0.06 ^c	1.37 ± 0.03 ^b	1.37 ± 0.03 ^b	1.43 ± 0.05 ^c	1.43 ± 0.05 ^c
C16:0 (Palmitic)	33.92 ± 0.03 ^{a,b}	34.06 ± 0.09 ^b	34.13 ± 0.10 ^{b,c}	33.71 ± 0.06 ^a	34.63 ± 0.01 ^d	34.12 ± 0.09 ^{b,c}	34.22 ± 0.13 ^c	33.63 ± 0.25 ^a
C16:1 (Palmitoleic)	2.18 ± 0.04 ^c	2.17 ± 0.02 ^c	2.12 ± 0.04 ^b	2.15 ± 0.04 ^b	2.22 ± 0.04 ^{c,d}	2.26 ± 0.04 ^d	2.20 ± 0.02 ^c	2.17 ± 0.09 ^c
C17:0 (Margaric)	0.67 ± 0.03 ^a	0.75 ± 0.07 ^b	0.67 ± 0.01 ^a	0.78 ± 0.03 ^{b,c}	0.77 ± 0.05 ^b	0.92 ± 0.01 ^d	0.73 ± 0.02 ^b	0.81 ± 0.04 ^c
C18:0 (Stearic)	10.80 ± 0.02 ^{c,d}	10.81 ± 0.01 ^d	10.87 ± 0.02 ^d	10.56 ± 0.22 ^b	10.61 ± 0.02 ^b	10.31 ± 0.05 ^a	10.49 ± 0.05 ^a	10.55 ± 0.09 ^{a,b}
C18:1 11t (<i>trans</i> -Vaccenic)	2.36 ± 0.04 ^a	2.22 ± 0.01 ^a	2.26 ± 0.05 ^a	2.26 ± 0.04 ^a	2.19 ± 0.14 ^a	2.21 ± 0.05 ^a	2.21 ± 0.05 ^a	2.17 ± 0.04 ^a
C18:1 9c (Oleic)	22.00 ± 0.19 ^{c,d}	22.10 ± 0.09 ^d	21.44 ± 0.04 ^a	21.62 ± 0.06 ^b	22.14 ± 0.04 ^d	22.24 ± 0.05 ^d	21.92 ± 0.09 ^{b,c}	21.77 ± 0.16 ^b
C18:1 n7 (<i>cis</i> -Vaccenic)	0.59 ± 0.04 ^a	0.52 ± 0.05 ^a	0.60 ± 0.01 ^a	0.61 ± 0.03 ^a	0.63 ± 0.05 ^a	0.57 ± 0.03 ^a	0.62 ± 0.00 ^a	0.62 ± 0.02 ^a
C18:1 12c	0.67 ± 0.02 ^a	0.67 ± 0.01 ^a	0.65 ± 0.05 ^a	0.69 ± 0.01 ^a	0.65 ± 0.02 ^a	0.61 ± 0.02 ^a	0.64 ± 0.01 ^a	0.67 ± 0.05 ^a
C18:2 9c 12c (Linoleic)	1.59 ± 0.02 ^b	1.65 ± 0.00 ^d	1.60 ± 0.04 ^b	1.63 ± 0.03 ^{c,d}	1.52 ± 0.01 ^a	1.51 ± 0.02 ^a	1.54 ± 0.07 ^{a,b}	1.61 ± 0.05 ^c
C18:3 9c 12c 15c (α -Linolenic)	0.95 ± 0.03 ^c	0.95 ± 0.03 ^c	0.98 ± 0.02 ^d	0.98 ± 0.04 ^d	0.85 ± 0.02 ^a	0.92 ± 0.00 ^{b,c}	0.87 ± 0.01 ^{a,b}	0.96 ± 0.04 ^{c,d}
C18:2 9c 11t (CLA)	0.91 ± 0.01 ^a	0.89 ± 0.01 ^a	0.87 ± 0.03 ^a	0.86 ± 0.02 ^a	0.85 ± 0.02 ^a	0.90 ± 0.01 ^a	0.89 ± 0.02 ^a	0.90 ± 0.00 ^a
C20:1 n9	0.21 ± 0.01 ^a	0.20 ± 0.02 ^a	0.19 ± 0.01 ^a	0.18 ± 0.01 ^a	0.18 ± 0.01 ^a	0.17 ± 0.02 ^a	0.21 ± 0.01 ^a	0.20 ± 0.01 ^a
SFA	67.54 ^a	67.66 ^a	68.29 ^a	68.00 ^a	67.78 ^a	67.58 ^a	67.91 ^a	67.96 ^a
MUFA	29.00 ^a	28.84 ^a	28.24 ^a	28.51 ^a	28.98 ^a	29.08 ^a	28.80 ^a	28.58 ^a
PUFA	3.45 ^b	3.49 ^{b, c}	3.45 ^b	3.47 ^{b, c}	3.22 ^a	3.33 ^a	3.30 ^a	3.47 ^{b, c}

Fatty acids	Clove bud				Juniper berry			
	12.5%	25%	50%	100%	12.5%	25%	50%	100%
Fat extraction yield (%)	35.18 ^a	30.64 ^a	23.84 ^a	31.47 ^a	25.14 ^a	24.73 ^a	33.24 ^a	37.05 ^a

¹Data are displayed as mean \pm SD. Mean values marked by the different lower-case superscripts letters (a-e) within a row denote statistically significant differences ($p < 0.05$) in two-way ANOVA.