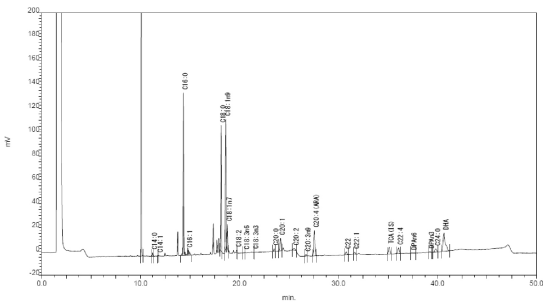
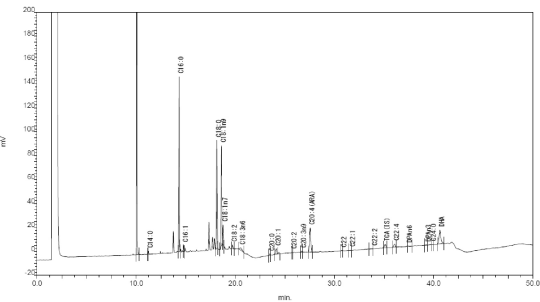


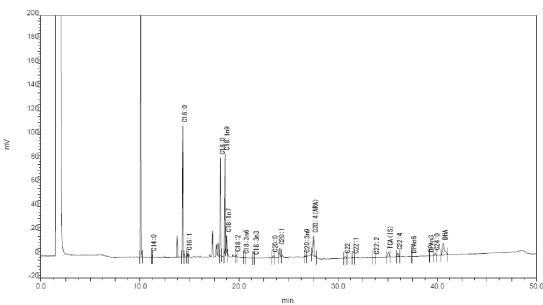
a control



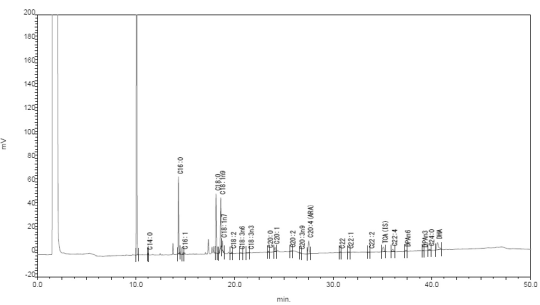
b gestation



c lactation



d postweaning



e life-long

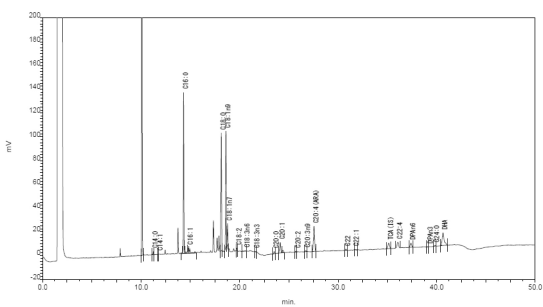


Table S1

Fatty acid	soybean oil	safflower oil
14:0	0.1% $\pm$ 0.0%	0.1% $\pm$ 0.1%
16:0	10.5% $\pm$ 0.1%	6.9% $\pm$ 0.0%
18:0	3.4% $\pm$ 0.0%	2.7% $\pm$ 0.0%
20:0	0.3% $\pm$ 0.0%	0.3% $\pm$ 0.0%
22:0	0.4% $\pm$ 0.0%	0.3% $\pm$ 0.0%
24:0	0.0% $\pm$ 0.0%	0.0% $\pm$ 0.0%
18:1	26.6% $\pm$ 0.0%	16.2% $\pm$ 0.1%
20:1	0.2% $\pm$ 0.0%	0.2% $\pm$ 0.0%
18:2 <i>n</i> -6	51.6% $\pm$ 0.3%	71.8% $\pm$ 0.2%
18:3 <i>n</i> -3	6.3% $\pm$ 0.2%	0.8% $\pm$ 0.1%
total SFAs	14.8% $\pm$ 0.1%	10.3% $\pm$ 0.0%
total MUFAs	26.9% $\pm$ 0.0%	16.6% $\pm$ 0.1%
total PUFAs	58.3% $\pm$ 0.1%	73.1% $\pm$ 0.2%
<i>n</i> -6/ <i>n</i> -3	8.3 $\pm$ 0.2	92.2 $\pm$ 5.9

Table S2

Fatty acid	retention time (min)	control	gestation	lactation	postweaning	life-long
16:0	12.36	455032.73 ± 51060.36	532331.87 ± 15709.31	480289.07 ± 45793.51	328828.00 ± 55660.81	434399.40 ± 45110.81
18:0	15.59	467699.47 ± 52885.39	472917.13 ± 8581.94	515458.33 ± 53833.51	312771.27 ± 37876.80	431044.60 ± 37541.03
18:1 n -9	15.93	507880.53 ± 55156.57	445225.93 ± 10273.54	539266.13 ± 55889.34	316529.73 ± 44031.13	437239.13 ± 48737.02
18:1 n -7	16.05	103989.80 ± 12195.08	97359.07 ± 4188.95	162035.27 ± 39624.85	69407.27 ± 9537.52	99339.80 ± 10246.59
18:2 n -6	16.76	14406.80 ± 1631.60	51156.73 ± 7682.31	24518.13 ± 10761.18	7787.20 ± 702.10	15755.47 ± 2065.84
20:1 n -9	20.16	70991.67 ± 10035.85	36819.33 ± 1426.70	60505.27 ± 3778.92	35755.13 ± 5113.34	56183.67 ± 7950.33
20:4 n -6	22.79	158815.73 ± 17116.43	166115.60 ± 4498.11	149276.80 ± 5623.60	101459.47 ± 10983.71	149484.47 ± 16418.03
22:4 n -6	29.80	40562.53 ± 4655.09	29039.67 ± 1859.37	28910.20 ± 3733.50	19279.67 ± 2609.83	42534.20 ± 4426.14
22:5 n -6	30.83	2908.93 ± 683.56	5187.33 ± 373.75	2548.40 ± 1364.51	3262.73 ± 1789.45	28174.53 ± 3710.42
22:6 n -3	33.70	204333.00 ± 28151.66	137448.53 ± 12272.56	154333.13 ± 3030.98	88748.47 ± 8920.15	120587.67 ± 15227.85