Supplementary Table 2
GC/MS data of fatty acid composition relating to Figure 2

Data for Figure 2A, 2B, and 2C

Treatment	% Sterility	N	14:0	15iso	16:0	17iso	16:1	17Δ	18:0	18:1n-9	18:1n-7	18:2	19Δ	20:3	20:4	20:4n-3	20:5
0mM DGLA/0mM OA N2	0.0%	5	0.98%	3.06%	3.86%	2.45%	1.01%	17.38%	4.96%	3.22%	11.54%	3.64%	24.86%	3.76%	0.74%	5.01%	10.97%
0mM DGLA/0.1mM OA N2	0.0%	5	0.82%	3.50%	4.18%	3.37%	1.40%	10.51%	5.41%	6.09%	11.10%	4.69%	23.85%	3.84%	0.77%	5.79%	11.76%
0mM DGLA/0.2mM OA N2	0.0%	5	0.76%	3.67%	4.00%	3.63%	1.40%	8.53%	5.22%	7.11%	10.28%	4.91%	25.70%	3.76%	0.68%	5.67%	11.82%
0mM DGLA/0.3mM OA N2	0.0%	5	0.75%	3.75%	3.89%	3.91%	1.34%	6.61%	5.46%	8.47%	9.91%	5.10%	25.55%	3.65%	0.66%	5.93%	12.20%
0.1mM DGLA/0mM OA N2	44.4%	5	1.64%	3.49%	4.61%	1.97%	2.09%	9.61%	5.67%	4.79%	7.51%	5.29%	28.82%	6.60%	0.85%	6.52%	8.32%
0.1mM DGLA/0.1mM OA N2	0.0%	5	1.10%	4.44%	4.99%	3.75%	1.68%	9.53%	6.38%	5.71%	10.76%	5.05%	15.49%	5.86%	0.90%	7.61%	13.52%
0.1mM DGLA/0.2mM OA N2	0.0%	5	0.86%	3.93%	4.20%	3.67%	1.40%	7.13%	5.54%	5.73%	8.73%	5.27%	26.77%	4.96%	0.69%	6.41%	11.75%
0.1mM DGLA/0.3mM OA N2	0.0%	5	0.81%	4.01%	3.93%	3.82%	1.42%	6.70%	5.18%	6.50%	8.52%	5.17%	26.72%	4.54%	0.68%	6.85%	12.34%
0.2mM DGLA/0mM OA N2	66.8%	5	2.01%	3.61%	5.01%	1.79%	2.51%	7.75%	6.76%	4.87%	6.60%	5.91%	20.49%	11.34%	1.15%	9.17%	8.59%
0.2mM DGLA/0.1mM OA N2	0.0%	5	0.95%	3.78%	4.57%	3.29%	1.58%	8.07%	5.40%	4.91%	8.36%	5.65%	24.72%	6.64%	0.79%	7.38%	10.91%
0.2mM DGLA/0.2mM OA N2	0.0%	5	0.84%	3.93%	4.24%	3.52%	1.53%	7.20%	5.16%	5.68%	8.07%	5.25%	27.46%	5.94%	0.70%	6.98%	10.81%
0.2mM DGLA/0.3mM OA N2	0.0%	5	0.78%	4.04%	4.10%	3.82%	1.49%	6.42%	5.39%	6.72%	8.13%	6.77%	26.20%	5.75%	0.74%	6.57%	10.33%
0.3mM DGLA/0mM OA N2	94.8%	5	2.01%	3.59%	5.12%	1.68%	2.44%	7.49%	6.71%	4.87%	5.97%	5.16%	22.36%	13.48%	1.09%	8.80%	6.95%
0.3mM DGLA/0.1mM OA N2	13.2%	5	0.99%	3.87%	4.46%	3.08%	1.83%	7.96%	5.40%	5.08%	7.89%	6.41%	22.24%	8.55%	0.86%	8.46%	10.04%
0.3mM DGLA/0.2mM OA N2	2.4%	5	0.85%	3.84%	4.29%	3.38%	1.54%	6.41%	5.54%	5.37%	7.41%	6.03%	25.24%	7.65%	0.74%	8.34%	10.48%
0.3mM DGLA/0.3mM OA N2	1.6%	5	0.79%	3.94%	4.10%	3.61%	1.50%	5.88%	5.40%	5.87%	7.27%	6.59%	25.42%	7.59%	0.71%	8.24%	10.31%
0mM DGLA/0mM OA fat-2	25.2%	5	0.88%	2.81%	1.78%	4.50%	3.69%	17.89%	2.14%	20.56%	24.20%	-	18.12%	-	-	-	1.14%
0mM DGLA/0.1mM OA fat-2	36.0%	5	0.79%	3.03%	1.69%	5.27%	3.76%	11.39%	2.12%	23.46%	24.22%	-	21.01%	-	-	-	1.06%
0mM DGLA /0.2mM OA fat-2	41.2%	5	0.79%	3.08%	1.68%	5.50%	3.60%	9.67%	2.06%	24.14%	23.46%	-	23.10%	-	-	-	1.02%
0mM DGLA/0.3OA fat-2	50.0%	5	0.78%	3.11%	1.60%	5.64%	3.44%	8.12%	2.06%	25.20%	23.15%	-	23.65%	-	-	-	1.19%
0.1mM DGLA/0mM OA fat-2	3.2%	5	1.15%	4.23%	4.07%	2.83%	1.86%	11.37%	5.90%	20.23%	9.23%	-	18.21%	4.79%	0.93%	4.15%	8.86%
0.1mM DGLA/0.1mM OA fat-2	0.0%	5	0.95%	3.62%	2.13%	4.46%	3.04%	8.00%	3.08%	23.28%	18.12%	-	24.24%	0.91%	0.19%	1.59%	4.60%
0.1mM DGLA/0.2mM OA fat-2	0.0%	5	0.93%	3.57%	1.81%	5.02%	3.21%	7.32%	2.59%	24.09%	20.13%	-	24.32%	0.68%	0.00%	1.03%	3.48%
0.1mM DGLA/0.3mM OA fat-2	0.0%	5	0.98%	3.88%	1.93%	5.84%	3.49%	5.60%	3.38%	26.91%	22.46%	-	20.12%	0.58%	0.29%	0.86%	2.11%
0.2mM DGLA/0mM OA fat-2	0.0%	5	1.09%	4.05%	4.12%	2.47%	1.76%	10.11%	5.92%	17.78%	8.17%	-	16.80%	8.93%	1.34%	5.52%	9.87%
0.2mM DGLA/0.1mM OA fat-2	0.0%	5	0.88%	3.92%	3.02%	3.75%	2.25%	8.75%	4.48%	23.93%	11.75%	-	24.64%	1.95%	0.41%	2.29%	6.05%
0.2mM DGLA/0.2mM OA fat-2	48.0%	5	0.89%	3.62%	2.44%	4.15%	2.55%	7.35%	3.88%	23.46%	15.04%	-	24.87%	1.43%	0.35%	2.13%	6.07%
0.2mM DGLA/0.3mM OA fat-2	68.8%	5	0.88%	3.77%	1.96%	4.75%	2.86%	6.71%	2.93%	24.78%	17.26%	-	24.68%	1.04%	0.25%	1.73%	4.79%
0.3mM DGLA/0mM OA fat-2	0.8%	5	1.01%	3.90%	4.14%	2.33%	1.73%	9.15%	6.03%	15.63%	7.39%	-	14.92%	13.59%	1.61%	6.85%	9.73%
0.3mM DGLA/0.1mM OA fat-2	0.0%	5	0.97%	3.88%	3.60%	3.30%	1.96%	7.99%	5.20%	21.93%	9.11%	-	21.73%	4.49%	0.82%	4.29%	9.04%
0.3mM DGLA/0.2mM OA fat-2	0.0%	5	0.83%	3.68%	3.34%	3.66%	1.84%	6.97%	5.17%	24.37%	9.67%	-	24.64%	3.21%	0.64%	3.24%	7.31%
0.3mM DGLA/0.3mM OA fat-2	0.0%	5	0.79%	4.12%	3.10%	3.77%	1.77%	6.72%	4.97%	24.98%	9.62%	-	24.93%	2.97%	0.50%	2.97%	7.22%

abbreviations

fatty acid nomenclature x:y(n-z) x= # of carbons, y= # of double bonds, n-z = location of terminal double bonds, z carbons from the methyl end

15:*iso* 13-methyltetradecanoic acid

17:*iso* 15-methylhexanoic acid

17Δ cis-9,10-methylenehexadecanoic acid

19Δ cis-11,12-methylene octadecanoic acid

\- not detected (<0.25%)