

Supplementary Table 3. Fatty acid content in various components, supplementing Figure 4B.

Metabolite	Control-0h (µg/g)	Control-4h (µg/g)	Ethylene-4h (µg/g)	Control-8h (µg/g)	Ethylene-8h (µg/g)	Control-12h (µg/g)	Ethylene-12h (µg/g)
Methyl tetradecanoate: C14:0	122.95±8.88	95.67±13.28	60.84±1.7*	79±2.66	61.06±4.33**	56.06±0.98	52.36±4.01
Pentadecanoic acid, methyl ester: C15:0	43.57±3.21	30.57±4.02	23.23±2.78	30.02±2.53	23.96±2.65*	24.59±1.92	17.45±1.39**
Hexadecanoic acid, methyl ester: C16:0	64138.27±6301.57	51550.35±2252.24	41580.47±3860.7*	42300.33±3779.6	36716.92±1610.52	35242.75±2061.04	33913.31±2138.84
Methyl hexadec-9-enoate: C16:1	187.38±4.5	190.64±12.05	164.16±13.95	162.58±13.5	139.46±9.04	131.7±6.75	129.24±3.48
9-Hexadecenoic acid, methyl ester, (Z): C16:1	430.33±38.26	295.78±18.48	257.98±26.81	286.93±20.9	209.23±12.92**	248.62±14.11	200.05±29.01
Heptadecanoic acid, methyl ester: C17:0	348.69±46.17	287.67±41.6	239.3±26.28	277.42±18.45	201.32±11.94**	183±3.51	176.03±22.18
cis-10-Heptadecenoic acid, methyl ester: C17:1	167.93±8.44	153.09±9.55	111.11±31.77	132.73±7.79	101.84±8.51**	93.82±3.02	89.21±15.41
Methyl stearate: C18:0	20113.5±1200.68	15268.57±1812.96	11444.32±2888.52	11892.6±271.98	10092.87±655.69*	8901.09±410.98	8952.64±561.17
9-Octadecenoic acid (Z)-, methyl ester: C18:1	136935.69±12050.98	110862.84±9201.98	92742.75±9818.6	89002.83±2494.23	80125.21±3651.46*	77285.85±4967.64	76005.41±5502.69
11-Octadecenoic acid, methyl ester: C18:1	2799.35±178.23	2071.24±179.54	1770.88±72.97	1852.53±69.19	1457.73±50.62**	1684.41±135.28	1623.29±106.89
9,12-Octadecadienoic acid (Z,Z)-, methyl ester: C18:2	178879.23±6130.52	134264.12±11748.37	119539.95±10764.32	110631.07±5600.43	96835.94±5329.78*	93907.84±7078.24	93670.07±5706.2
Eicosanoic acid, methyl ester: C20:0	8650.57±366.59	5912.96±222.1	5646.85±362.14	5569.13±674.61	4534.25±243.43	4030.97±298.59	4120.72±354.77
cis-11-Eicosenoic acid methyl ester: C20:1	8045.81±348.99	5294.32±694.36	4645.03±508.68	4473.97±217.89	3663.5±27.72**	3981.68±398.87	4069.34±219.92

cis-11,14-Eicosadienoic acid, methyl ester: C20:2	257.15±4.77	80.68±1.74	103.73±2.1*	63.92±10.33	75.76±2.82	82.1±4.46	78.11±5.36
Heneicosanoic acid, methyl ester: C21:0	221.35±27.98	58.09±11.89	70.86±3.01	53.89±3.83	76.13±3.76**	41±4.13	42.95±2.81
Docosanoic acid, methyl ester: C22:0	26727.26±537.52	18861.83±1505.44	13478.64±802.75**	14670.04±157.99	13252.44±1036.23	12466.32±1332.42	12326.63±1729.88
Tetracosanoic acid, methyl ester: C24:0	22165.14±2410.27	15540.81±1232.98	12053.57±943.81*	12664.95±855.66	11013.24±1269.64	10762.05±788.47	10691.79±1299.43
Hexacosanoic acid, methyl ester: C26:0	2246.8±1693.16	2020.53±55.88	1340.75±124.56**	1638.27±37.2	1512.59±68.66*	1286.61±88.04	1430.97±137.27

*, $p\text{-value} \leq 0.05$; **, $p\text{-value} \leq 0.01$.