

Supplementary data content page

Title: Lipidome of the Brown Macroalga *Undaria pinnatifida*: Influence of Season and Endophytic Infection

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Correspondence: chadova_9595@mail.ru**Table S1.** The polar lipid classes content (% of the total polar lipids) and TAG (% of the total lipids) of various parts of the blades of *Undaria pinnatifida* samples uninfected and infected with the endophyte *Laminariocolax aecidioides* collected in different months. Values given as mean \pm s.d. for triplicate. "+" – amount less than 0.1%, "-" – not detected. Between columns result of Tukey test and Students t-test ($p < 0.05$, $n = 3$) are shown (">", "<" – statistically significant difference, "=" – no significant changes). "T" – difference between «June» and «February», "S" – difference between uninfected and infected samples.

Lipid	The lower part of the blades of infected <i>U. pinnatifida</i> samples							The upper intact part of the blades of infected <i>U. pinnatifida</i> samples							The upper part of the blades of infected <i>U. pinnatifida</i> samples with endophyte		The lower part of the blades of uninfected <i>U. pinnatifida</i> samples				The upper part of the blades of uninfected <i>U. pinnatifida</i> samples			
	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Jun.	Nov.	S	Jun.	S	Nov.	S	Jun.	S
TAG	8.7 \pm 3.7	= 6.9 \pm 2.0	= 5.9 \pm 1.4	< 14.7 \pm 3.9	= 12.5 \pm 1.5	> 4.5 \pm 0.7	<	9.0 \pm 2.0	= 8.5 \pm 0.7	= 9.3 \pm 0.7	< 19.7 \pm 0.9	= 17.2 \pm 2.2	> 7.9 \pm 2.8	<	12.5 \pm 2.1	12.5 \pm 0.3	5.3 \pm 0.1	= 8.6 \pm 2.4	= 9.7 \pm 0.7	= 6.9 \pm 0.6	=			
MGDG	34.1 \pm 3.0	= 35.1 \pm 2.7	> 25.4 \pm 1.1	= 24.7 \pm 2.6	> 21.1 \pm 1.3	< 34.4 \pm 2.2	>	31.6 \pm 2.1	< 45.4 \pm 2.6	> 27.7 \pm 0.8	= 26.1 \pm 1.5	= 24.5 \pm 0.9	< 30.7 \pm 2.0	>	29.2 \pm 2.5	31.9 \pm 3.0	29.2 \pm 0.4	= 43.2 \pm 2.4	> 29.7 \pm 0.3	= 36.7 \pm 0.6	>			
GlcADG	0.4 \pm 0.1	= 0.5 \pm 0.0	> 0.4 \pm 0.1	< 0.6 \pm 0.1	= 0.6 \pm 0.1	= 0.2 \pm 0.1	<	0.8 \pm 0.1	= 0.6 \pm 0.0	= 0.5 \pm 0.1	= 0.5 \pm 0.0	= 0.5 \pm 0.1	= 0.6 \pm 0.3	=	1.0 \pm 0.1	0.9 \pm 0.2	0.5 \pm 0.0	= 0.2 \pm 0.0	= 1.0 \pm 0.2	= 0.3 \pm 0.0	=			
SQDG	11.9 \pm 1.0	> 3.9 \pm 1.7	< 6.2 \pm 0.3	< 10.3 \pm 0.9	= 11.4 \pm 0.8	= 12.9 \pm 1.3	>	11.5 \pm 1.1	> 1.0 \pm 0.3	< 5.9 \pm 0.1	< 9.1 \pm 0.5	= 9.0 \pm 1.0	< 13.1 \pm 0.7	>	11.8 \pm 0.3	13.5 \pm 1.8	12.5 \pm 0.9	= 8.0 \pm 4.3	= 13.3 \pm 0.3	= 11.2 \pm 0.8	=			
DGDG	9.9 \pm 0.0	< 18.7 \pm 2.0	> 13.9 \pm 0.9	= 12.4 \pm 2.0	= 13.0 \pm 1.0	> 8.5 \pm 1.3	<	13.9 \pm 0.9	> 7.2 \pm 2.5	< 20.9 \pm 0.6	= 22.5 \pm 2.0	= 23.0 \pm 3.2	> 12.9 \pm 2.5	<	14.8 \pm 1.2	11.3 \pm 2.5	10.0 \pm 0.2	= 6.8 \pm 0.9	= 14.1 \pm 0.4	= 13.6 \pm 0.1	=			
PG	16.0 \pm 1.2	< 19.1 \pm 0.5	> 17.2 \pm 0.6	> 14.8 \pm 0.9	= 15.6 \pm 1.3	> 13.7 \pm 0.7	=	14.8 \pm 1.8	= 12.3 \pm 2.9	< 19.4 \pm 1.3	> 13.7 \pm 1.2	= 14.6 \pm 1.1	> 12.2 \pm 1.6	=	16.0 \pm 0.7	13.2 \pm 1.9	17.5 \pm 0.5	= 13.1 \pm 3.4	= 13.3 \pm 0.4	= 13.0 \pm 1.3	=			
PG-OH	0.3 \pm 0.0	< 0.5 \pm 0.0	= 0.5 \pm 0.1	= 0.5 \pm 0.1	> 0.3 \pm 0.0	> 0.1 \pm 0.0	<	0.3 \pm 0.0	> 0.2 \pm 0.1	< 0.7 \pm 0.1	> 0.4 \pm 0.1	= 0.4 \pm 0.1	> 0.1 \pm 0.1	<	0.2 \pm 0.1	0.1 \pm 0.1	0.3 \pm 0.0	= 0.1 \pm 0.0	= 0.3 \pm 0.1	= 0.2 \pm 0.1	=			
PI	2.2 \pm 0.6	> 1.0 \pm 0.3	< 5.4 \pm 0.3	> 4.7 \pm 0.2	> 2.9 \pm 0.3	= 2.5 \pm 0.7	<	2.0 \pm 0.5	> 0.5 \pm 0.3	< 3.1 \pm 0.8	= 3.2 \pm 0.8	= 2.4 \pm 0.9	> 2.0 \pm 0.1	<	2.0 \pm 0.2	1.7 \pm 0.4	2.9 \pm 0.2	= 1.2 \pm 0.6	= 2.3 \pm 0.4	= 1.8 \pm 0.3	=			
CPI	0.6 \pm 0.1	> 0.1 \pm 0.0	< 0.5 \pm 0.3	= 0.4 \pm 0.1	> 0.2 \pm 0.1	< 0.5 \pm 0.2	=	0.4 \pm 0.1	> 0.1 \pm 0.0	< 0.3 \pm 0.1	= 0.3 \pm 0.0	> 0.2 \pm 0.1	< 0.5 \pm 0.1	>	0.4 \pm 0.1	0.5 \pm 0.2	0.8 \pm 0.1	> 0.3 \pm 0.1	= 0.7 \pm 0.0	> 0.5 \pm 0.2	=			
PE	8.5 \pm 1.0	= 8.5 \pm 0.9	< 10.9 \pm 1.0	< 13.7 \pm 1.3	< 15.3 \pm 1.0	> 9.1 \pm 0.8	<	9.0 \pm 0.8	< 15.4 \pm 0.3	> 7.7 \pm 0.4	< 9.2 \pm 0.6	< 11.0 \pm 1.3	= 10.0 \pm 0.2	>	8.7 \pm 0.9	9.5 \pm 0.6	9.0 \pm 0.9	= 9.1 \pm 3.7	= 9.8 \pm 0.6	= 8.2 \pm 1.4	=			
DGTS	+	=	+	=	+	=	+	+	=	+	=	+	=	+	+	0.1 \pm 0.0	+	=	+	=	+	>	+	=
DGTA	+	=	+	=	-	=	0.1 \pm 0.0	=	-	=	-	=	0.1 \pm 0.1	=	-	=	+	=	0.6 \pm 0.0	=	+	=		
PHEG	1.9 \pm 0.1	> 1.1 \pm 0.1	< 1.7 \pm 0.1	< 2.1 \pm 0.3	= 2.3 \pm 0.2	= 1.9 \pm 0.4	=	1.7 \pm 0.1	= 1.7 \pm 0.4	> 1.2 \pm 0.1	< 1.5 \pm 0.1	= 1.4 \pm 0.2	= 1.3 \pm 0.6	=	1.7 \pm 0.3	1.8 \pm 0.2	2.1 \pm 0.3	= 1.8 \pm 0.3	= 1.9 \pm 0.1	= 1.4 \pm 0.2	=			
PC	14.2 \pm 1.4	> 11.3 \pm 1.4	< 18.0 \pm 0.6	= 16.0 \pm 1.8	= 17.2 \pm 0.8	> 16.0 \pm 0.6	=	13.9 \pm 1.2	= 15.5 \pm 1.4	> 12.7 \pm 1.4	= 13.5 \pm 0.4	= 12.9 \pm 2.2	< 16.6 \pm 1.5	>	14.1 \pm 0.7	15.2 \pm 0.9	15.2 \pm 1.2	= 16.0 \pm 0.8	= 12.8 \pm 0.0	= 13.0 \pm 1.0	<			

Table S2. The fatty acids composition of various parts of the blades of *Undaria pinnatifida* samples uninfected (L and U) and infected with the endophyte *Laminariocolax aecidioides* (Li, Ui and Ue) collected in June. Values given as % of total fatty acids of the fraction (mean \pm s.d. for triplicate). "+" – amount less than 0.1%, "-" – not detected. Between columns result of Students t-test ($p < 0.05$, $n = 3$) are shown (">", "<" – statistically significant difference, "=" – no significant changes).

FA	Polar lipids fraction					Neutral lipids fraction				
	L	Li	U	Ui	Ue	L	Li	U	Ui	Ue
12:0	0.3 \pm 0.0	> +	0.1 \pm 0.0	= 0.1 \pm 0.1	= 0.2 \pm 0.1	0.9 \pm 0.9	= 1.8 \pm 0.5	1.3 \pm 0.3	= 1.5 \pm 0.5	= 1.6 \pm 0.0
14:0	3.6 \pm 0.4	= 3.9 \pm 0.2	3.1 \pm 0.1	= 3.8 \pm 0.9	= 4.5 \pm 0.5	7.2 \pm 0.3	< 10.2 \pm 0.8	8.8 \pm 1.6	= 9.4 \pm 1.1	> 7.3 \pm 0.3
14:1 ω -7	0.4 \pm 0.0	> +	0.2 \pm 0.0	= 0.2 \pm 0.2	= 0.2 \pm 0.0	2.2 \pm 0.4	> -	0.4 \pm 0.1	> -	< +

14:1ω-5	-	<	+	-	<	+	=	+	-	=	-	=	-	=	-	
i-15:0	0.1±0.0	=	+	+	=	+	<	0.2±0.1	0.6±0.1	=	0.5±0.0	0.5±0.2	=	0.5±0.2	=	1.4±0.9
ai-15:0	0.2±0.0	<	+	0.1±0.0	=	0.1±0.0	=	0.1±0.0	0.9±0.1	=	1.0±0.1	0.8±0.5	=	1.1±0.9	=	1.5±0.0
15:0	0.6±0.3	=	0.2±0.0	0.4±0.1	=	0.5±0.3	=	0.6±0.1	+	<	2.3±0.9	+	<	1.7±0.5	>	+
15:1ω-7	+	=	+	+	=	+	=	0.1±0.0	0.6±0.0	>	0.3±0.0	-	<	0.7±0.2	=	0.5±0.0
i-16:0	0.3±0.0	>	+	0.2±0.0	=	0.7±0.6	=	0.2±0.0	-	=	-	-	=	-	<	0.6±0.0
16:0	19.3±3.1	=	17.8±1.9	18.1±2.0	=	16.3±1.0	<	19.3±1.4	22.0±1.2	=	23.1±0.5	20.5±3.1	<	26.3±2.0	<	30.2±4.3
16:1ω-9	1.4±0.0	>	0.1±0.0	0.8±0.0	=	0.6±0.5	=	0.8±0.1	0.2±0.3	=	1.2±0.1	1.0±0.2	=	0.8±0.0	=	1.4±0.7
16:1ω-7	0.5±0.1	=	0.3±0.0	0.4±0.1	=	0.5±0.0	=	0.6±0.2	1.2±0.3	=	1.0±0.1	1.0±0.1	=	1.3±0.6	=	2.7±0.8
16:1ω-5	+	<	0.1±0.0	-	<	0.1±0.1	=	0.1±0.0	-	<	+	-	=	-	<	0.2±0.2
trans-16:1Δ3	0.4±0.2	=	1.0±0.3	0.4±0.1	<	1.5±0.5	=	1.9±0.2	0.1±0.1	=	0.3±0.0	0.2±0.1	=	0.3±0.3	=	1.5±0.9
ai-17:0	0.1±0.0	=	+	0.1±0.0	=	+	=	0.1±0.0	0.3±0.2	=	1.9±0.8	0.2±0.2	<	1.4±0.0	=	1.7±1.5
16:2ω-4	-	=	-	+	=	+	=	+	0.7±0.5	=	+	0.6±0.5	=	0.1±0.0	<	0.3±0.0
17:0	0.2±0.0	=	0.1±0.0	0.1±0.0	=	0.2±0.1	=	0.2±0.0	0.8±0.1	=	0.9±0.1	0.7±0.1	=	1.1±0.4	=	0.6±0.1
17:1ω-9	0.2±0.0	>	+	0.1±0.0	=	0.1±0.0	=	0.2±0.0	1.5±0.1	=	1.2±0.2	1.2±0.3	=	1.6±1.2	=	0.6±0.0
16:3ω-3	0.1±0.0	>	-	+	=	0.1±0.0	=	0.1±0.0	0.3±0.4	=	0.9±0.0	0.3±0.3	=	0.1±0.0	>	-
17:1ω-5	0.1±0.0	=	+	0.1±0.0	=	0.1±0.0	=	0.1±0.1	-	>	1.3±0.0	-	<	0.6±0.7	>	-
i-18:0	0.2±0.0	>	+	0.1±0.0	=	0.1±0.0	=	0.1±0.0	1.1±0.2	=	1.3±0.1	0.6±0.0	=	1.9±1.1	=	2.8±0.0
17:2ω-6	+	>	-	+	=	+	=	+	0.4±0.2	=	0.3±0.1	0.4±0.0	=	0.3±0.1	=	1.4±1.3
16:4ω-1	-	<	+	-	<	+	=	+	-	<	0.1±0.0	-	<	0.1±0.0	>	-
18:0	1.6±0.2	=	1.5±0.1	1.2±0.1	<	1.8±0.2	=	2.0±0.4	4.6±0.6	=	4.4±0.1	4.1±0.4	<	5.8±0.2	>	3.7±1.4
18:1ω-9	8.0±1.5	=	9.2±1.2	7.7±0.3	>	5.3±0.6	=	6.7±0.8	10.6±0.7	=	14.6±0.2	9.8±1.9	<	14.0±0.3	<	15.4±1.0
18:1ω-7	0.1±0.0	>	+	0.1±0.1	=	0.2±0.1	=	0.3±0.1	0.3±0.2	=	0.6±0.3	0.2±0.0	=	0.5±0.2	=	2.6±2.3
18:1ω-6/ 18:1ω-5	-	<	+	-	=	-	=	-	-	=	-	-	=	-	=	-
18:2ω-6	7.0±0.3	=	7.2±0.6	6.9±0.0	=	6.5±0.8	=	6.4±0.6	7.4±0.5	=	7.9±0.6	7.9±1.1	=	6.5±0.8	=	5.6±0.4
19:0	+	>	-	-	<	+	=	+	0.1±0.0	=	0.1±0.0	0.1±0.0	=	0.1±0.1	<	0.5±0.0
18:3ω-6	1.3±0.4	=	2.0±0.4	1.2±0.1	<	0.6±0.3	=	0.6±0.1	1.8±0.1	=	1.3±0.3	1.8±0.1	>	0.5±0.0	=	0.5±0.0
Σ 19:1	-	=	-	-	=	-	=	-	-	=	-	-	=	-	=	-
18:3ω-3	10.4±1.7	=	8.7±1.8	11.2±0.5	=	10.9±0.4	=	9.6±1.4	5.6±0.4	>	2.7±0.2	6.7±0.9	>	4.1±0.9	>	1.6±1.4
i-20:0	-	<	+	-	=	0.1±0.0	=	0.1±0.0	-	=	-	-	=	-	<	0.1±0.0
18:4ω-3	16.5±0.2	=	18.0±5.1	20.2±1.2	<	14.2±1.8	=	10.6±1.2	4.7±0.3	=	3.5±1.2	5.3±0.7	=	4.4±2.8	=	3.2±3.5
18:4ω-1	-	<	+	-	<	+	=	+	-	=	-	-	=	-	=	-
18:5ω-3	-	<	+	-	=	+	=	+	-	=	-	+	>	-	=	-
20:0	0.4±0.1	=	0.5±0.1	0.4±0.1	=	0.9±0.4	=	0.9±0.1	0.7±0.0	=	0.8±0.1	0.7±0.1	=	0.9±0.3	=	1.5±1.4
20:1ω-9	-	<	+	-	<	+	<	0.1±0.0	-	<	0.3±0.0	-	<	0.5±0.0	>	0.2±0.0
20:2ω-6	0.1±0.1	=	0.1±0.0	0.1±0.0	=	0.1±0.1	=	0.1±0.0	1.4±1.2	=	0.6±0.4	1.5±1.2	=	0.4±0.3	=	-
20:3ω-9	-	=	-	-	<	0.1±0.0	=	0.2±0.1	-	<	0.4±0.0	-	<	0.4±0.1	=	0.5±0.0
20:3ω-6	0.8±0.5	=	1.1±0.3	0.6±0.0	=	0.8±0.4	=	0.9±0.1	0.9±0.1	=	1.0±0.0	0.9±0.1	=	0.4±0.1	>	-
20:4ω-6	17.5±3.7	=	17.6±3.5	17.4±2.2	=	19.6±0.1	=	17.5±1.8	10.4±0.5	>	7.8±0.9	11.6±2.1	>	5.3±1.7	>	2.2±0.7
21:1ω-7	-	<	+	-	<	+	=	+	-	=	-	-	=	-	<	0.9±0.0
20:3ω-3	0.1±0.0	=	0.1±0.0	0.1±0.0	=	0.1±0.1	=	0.1±0.0	-	=	-	-	=	-	=	-
i-22:0	-	=	-	-	<	+	=	0.1±0.0	-	=	-	-	<	+	=	+

20:4ω-3	1.5±0.4	>	0.7±0.1	0.9±0.4	=	1.7±0.8	=	2.6±1.0	0.9±0.1	=	1.1±0.8	1.1±0.3	=	0.9±0.4	=	2.0±2.4
20:5ω-3	6.6±0.1	<	9.3±1.6	7.6±0.4	<	13.5±1.1	=	12.0±1.2	7.7±0.1	>	4.3±0.7	8.8±1.6	>	4.7±2.3	=	2.3±1.9
SFA	26.0±2.0	=	24.1±2.2	23.4±1.7	=	23.3±1.8	=	27.7±2.0	37.8±3.6	=	43.5±2.7	36.9±6.1	=	46.6±2.3	=	46.9±7.3
MUFA	9.7±1.3	=	10.7±1.0	9.0±0.3	=	7.8±1.1	=	9.8±0.9	16.2±0.4	=	18.5±1.0	12.7±3.0	<	19.0±3.0	=	22.6±2.2
PUFA	61.9±3.2	=	64.8±1.8	66.2±2.2	=	67.4±2.9	>	60.8±2.9	42.4±4.0	>	31.4±2.7	46.9±7.5	>	28.1±8.8	=	19.2±11.5
ω-3	35.1±1.1	=	36.8±6.0	39.9±0.1	=	39.9±2.7	=	34.9±1.0	19.2±1.2	>	12.1±3.1	22.2±2.9	>	14.2±6.5	=	9.2±9.2
ω-6	19.7±4.6	=	20.7±3.7	19.3±2.4	=	20.8±0.7	=	19.2±1.9	14.6±1.7	>	10.7±0.2	15.9±3.3	>	6.6±1.6	=	2.7±0.6

Table S3. The molecular species composition of MGDG, DGDG, SQDG, PG, PE, PC, PI, PHEG and TAG of various parts of the blades of *Undaria pinnatifida* samples uninfected and infected with the endophyte *Laminariocolax aecidioides* collected in different months. Values given as % of total molecular species (mean ± s.d. for triplicate). “+” – amount less than 0.1%, “-” – not detected. Between columns result of Tukey test and Students t-test (p<0.05, n=3) are shown (“>”, “<” – statistically significant difference, “=” – no significant changes). “T” – difference between «June» and «February», «S» – difference between uninfected and infected samples.

MGDG	The lower part of the blades of infected <i>U. pinnatifida</i> samples							The upper intact part of the blades of infected <i>U. pinnatifida</i> samples							The upper part of the blades of infected <i>U. pinnatifida</i> samples with endophyte		The lower part of the blades of uninfected <i>U. pinnatifida</i> samples		The upper part of the blades of uninfected <i>U. pinnatifida</i> samples									
	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Jun.	Nov.	S	Jun.	S	Nov.	S	Jun.	S				
14:0/16:4	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	0.1±0.1	0.1±0.0	+	=	+	=	0.2±0.0	>	+	=		
16:3/14:0	+	=	+	=	+	=	+	<	+	=	+	=	+	=	+	=	+	+	+	=	+	=	0.1±0.0	=	+	=		
14:0/16:2	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	-	=	+	=	-	=		
14:0/16:2	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	-	=	+	=	+	=		
14:0/16:1	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.1±0.1	=	0.1±0.0	0.1±0.0	0.1±0.0	>	+	=	0.4±0.0	>	+	=		
14:0/16:0	+	=	+	=	+	=	+	=	+	<	0.1±0.0	>	+	=	+	+	+	0.1±0.1	0.1±0.0	0.1±0.0	>	0.1±0.0	=	+	=	+	=	
16:4/16:4	+	=	+	=	+	=	+	=	+	<	+	=	+	=	+	=	0.1±0.1	0.4±0.3	>	+	=	+	=	+	=	0.1±0.1	=	
16:3/16:4	+	=	0.1±0.1	=	+	=	0.1±0.1	=	+	>	+	=	+	=	+	=	0.1±0.2	0.1±0.0	0.1±0.1	0.1±0.1	+	=	0.6±0.0	>	+	=		
16:3/16:3	+	=	0.1±0.1	=	+	<	0.1±0.0	>	+	=	+	<	+	=	+	=	0.2±0.1	0.3±0.1	>	+	=	0.1±0.1	=	0.5±0.1	>	+	=	
16:2/16:4	+	=	+	=	+	>	-	<	+	=	+	=	+	=	+	=	0.1±0.1	0.3±0.1	>	+	=	0.1±0.1	=	0.4±0.1	=	+	=	
18:4/14:1+	0.1±0.0	=	0.1±0.0	>	+	=	+	=	+	=	+	=	+	=	+	=	+	<	0.1±0.1	>	+	=	+	=	+	=		
16:2/16:3	0.1±0.0	=	0.1±0.0	>	+	=	+	=	+	=	+	=	+	=	+	=	+	0.1±0.1	0.1±0.0	0.1±0.0	0.1±0.0	0.1±0.0	0.1±0.0	0.3±0.0	>	+	=	
16:1/16:4+	0.1±0.0	<	0.1±0.0	=	0.2±0.1	>	0.1±0.0	=	0.1±0.0	>	+	=	+	=	+	=	0.1±0.1	0.1±0.0	0.1±0.0	0.1±0.0	0.1±0.0	0.1±0.0	0.1±0.0	0.3±0.0	>	+	=	
14:1/18:4	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	0.1±0.0	=	+	=		
18:3/14:1	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	0.1±0.0	=	+	=		
16:2/16:2	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	0.1±0.0	=	+	<		
16:1/16:3	+	>	-	<	+	=	+	=	+	>	-	=	+	=	+	=	+	+	+	=	-	=	-	=	+	=		
14:0/18:4	1.7±0.2	>	1.1±0.1	=	1.4±0.3	=	0.9±0.5	=	1.2±0.2	=	1.0±0.6	=	1.0±0.1	>	0.4±0.1	=	0.3±0.1	>	0.1±0.1	<	0.2±0.0	=	0.3±0.2	=	0.7±0.1	0.5±0.1		
16:0/16:4	+	=	+	=	+	>	+	=	+	<	+	=	+	=	+	=	+	0.1±0.0	0.1±0.0	+	=	+	=	0.1±0.0	=	-	=	
16:2/16:1	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	-	=	+	=	-	=		
16:1/16:2	+	=	+	>	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	0.1±0.0	>	+	=		
14:0/18:3	3.1±0.4	>	2.4±0.2	=	2.4±0.5	=	1.9±1.0	<	3.3±0.3	>	1.2±0.2	=	3.1±0.3	>	2.0±0.2	=	1.4±0.4	>	0.7±0.1	<	1.4±0.2	=	1.2±0.5	=	2.8±0.3	1.4±0.3		
16:3/16:0	+	=	+	=	+	=	+	<	+	=	0.1±0.0	>	+	=	+	=	+	+	+	=	+	=	0.1±0.0	=	-	=	+	=

16:0/16:3	-	<	+	=	+	=	+	=	+	=	+	=	-	<	+	>	+	=	+	=	+	=	+	=	+	+	+	=	+	=	+	=	+	=	-	=
16:1/16:1	+	=	+	=	+	=	+	=	+	<	+	>	0.1±0.0	=	+	=	+	=	+	>	+	=	+	=	0.1±0.1	+	0.1±0.0	=	+	=	0.2±0.0	=	+	=		
14:0/18:2	1.6±0.3	=	1.4±0.1	=	1.5±0.3	<	2.4±0.7	=	3.0±0.1	>	1.5±0.4	=	1.3±0.0	=	1.3±0.2	=	1.0±0.2	=	1.1±0.2	<	1.4±0.2	=	1.3±0.1	=	1.2±0.3	1.0±0.1	2.0±0.2	=	1.2±0.2	=	1.5±0.0	>	1.1±0.1	=		
14:0/18:2	+	=	+	=	+	>	-	<	+	=	+	>	+	>	+	=	+	=	+	<	+	=	+	>	+	-	+	=	+	=	+	=	+	=	+	=
16:0/16:2	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	-	+	+	=	+	=	+	=	+	=	+	=
14:0/18:1	2.3±0.5	>	1.3±0.2	>	0.9±0.2	<	2.1±0.2	=	2.0±0.2	=	1.9±0.9	=	1.9±0.1	>	1.5±0.2	>	1.1±0.0	<	1.6±0.3	>	1.0±0.1	=	0.9±0.4	<	1.9±0.0	1.1±0.3	3.1±0.4	=	1.3±0.0	=	2.4±0.1	>	0.7±0.1	=		
16:0/16:1	+	>	+	=	+	<	+	=	+	=	+	=	+	=	+	=	+	>	-	<	+	=	+	>	+	+	+	=	+	=	+	=	+	=	+	=
16:0/16:0	+	>	-	<	+	=	+	=	+	=	+	=	+	>	-	<	+	=	-	=	-	<	+	>	+	+	+	=	+	=	+	=	+	=	+	=
15:2/18:4	+	=	+	=	0.1±0.0	=	+	=	+	=	+	=	+	=	0.1±0.0	=	0.1±0.0	=	+	>	+	>	-	<	+	-	+	=	-	=	+	=	-	=	-	=
15:1/18:4	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	+	<	0.1±0.0	<	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.0	+	0.1±0.0	=	+	=	0.1±0.0	=	+	=	+	=
16:1/17:3	+	=	+	<	+	=	+	=	+	=	+	=	+	=	+	=	+	<	+	=	+	=	+	=	+	+	+	=	+	=	+	=	+	=	+	=
15:0/18:4	+	=	+	=	+	=	+	=	+	=	+	=	+	>	+	>	+	=	+	=	+	=	+	=	+	+	+	=	+	=	+	=	+	=	+	=
15:0/18:4	0.1±0.0	>	+	<	+	>	+	=	+	=	+	>	+	=	+	>	+	=	+	=	+	<	+	>	+	+	+	=	+	=	+	=	+	=	+	=
18:2/15:1	+	=	+	=	+	=	0.1±0.0	=	0.1±0.0	>	+	<	+	<	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	+	=	+	=	+	=
18:3/15:0	+	=	+	=	+	=	+	>	-	<	+	=	+	=	+	=	+	>	+	<	+	=	+	=	+	+	+	=	+	=	+	=	+	=	-	=
15:0/18:3	+	=	0.1±0.0	=	0.1±0.0	=	+	=	0.1±0.0	>	+	=	0.1±0.0	>	0.1±0.0	>	0.1±0.0	=	0.1±0.0	>	+	<	+	<	0.1±0.0	>	0.1±0.0	0.2±0.1	0.1±0.0	=	+	=	0.2±0.0	>	0.1±0.1	=
16:0/17:3	-	=	-	<	+	=	+	>	-	<	+	=	-	=	-	=	+	=	+	<	+	=	+	=	+	+	+	=	-	=	-	=	-	=	-	=
15:0/18:2+	+	=	+	=	+	=	0.1±0.0	=	+	=	+	=	+	=	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.0	>	+	=	0.1±0.0	0.1±0.0	0.1±0.0	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=
18:2/15:0	+	=	+	=	+	=	0.1±0.0	=	+	=	+	=	+	=	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.0	>	+	=	0.1±0.0	0.1±0.0	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=
15:0/18:1	0.1±0.0	=	+	=	+	<	0.1±0.0	>	+	<	0.1±0.0	>	0.1±0.0	=	0.1±0.0	>	+	=	+	=	0.1±0.0	<	0.1±0.0	>	0.1±0.0	0.1±0.0	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	+	=
18:5/16:4	+	=	+	=	+	>	-	=	-	<	+	>	+	<	+	=	+	=	+	=	+	=	+	=	+	-	+	=	+	=	+	=	+	=	-	=
16:4/18:4	0.4±0.1	<	2.0±0.1	<	2.6±0.4	>	1.2±0.1	=	1.5±0.2	>	0.2±0.1	<	0.4±0.1	<	1.5±0.2	=	1.2±0.2	>	0.6±0.1	<	1.1±0.2	>	0.3±0.2	<	0.3±0.1	0.2±0.1	0.6±0.0	=	0.3±0.1	=	0.5±0.1	=	0.4±0.1	=		
16:3/18:5	+	>	-	=	-	=	-	<	+	=	+	>	+	>	-	=	-	=	-	<	+	=	+	>	+	0.2±0.1	-	=	+	=	+	=	+	=	+	=
16:3/18:4	0.3±0.1	<	0.9±0.1	<	1.3±0.2	=	1.1±0.1	=	1.0±0.1	>	0.4±0.1	<	0.4±0.0	<	0.7±0.1	=	0.8±0.1	>	0.5±0.2	<	0.8±0.2	>	0.3±0.1	=	0.3±0.1	0.2±0.0	0.4±0.0	=	0.4±0.1	=	0.4±0.0	=	0.5±0.1	=		
18:3/16:4	-	<	+	>	-	<	+	=	+	=	+	=	+	=	+	>	-	<	+	=	+	<	0.1±0.0	>	+	0.1±0.1	+	=	+	=	+	=	0.1±0.0	=		
18:4/16:3	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	>	-	<	+	<	0.1±0.0	>	+	0.1±0.1	+	=	+	=	+	=	+	=	+	=
16:3/18:3	0.1±0.0	=	0.2±0.0	<	0.3±0.0	=	0.3±0.1	=	0.4±0.1	>	0.2±0.1	<	0.1±0.1	=	0.2±0.0	=	0.2±0.1	<	0.3±0.1	=	0.2±0.1	<	0.3±0.1	=	0.1±0.0	0.2±0.0	0.1±0.0	=	0.2±0.0	=	0.2±0.0	=	0.1±0.1	=		
16:2/18:4	0.2±0.0	<	0.3±0.1	=	0.4±0.0	<	0.4±0.0	>	0.3±0.0	>	0.2±0.1	<	0.3±0.0	<	0.4±0.0	=	0.4±0.0	=	0.3±0.1	=	0.3±0.1	=	0.1±0.1	<	0.1±0.0	0.1±0.1	0.3±0.1	=	0.3±0.0	=	0.2±0.1	=	0.2±0.1	=		
18:3/16:2	+	<	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=	0.1±0.1	=	+	=	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.0	=	0.1±0.0	=	+	+	+	=	0.1±0.0	=	+	=	0.1±0.0	=		
16:1/18:4	0.4±0.1	<	0.7±0.1	=	0.7±0.0	=	1.0±0.3	=	0.7±0.2	=	0.6±0.1	<	0.4±0.1	<	0.6±0.1	=	0.5±0.2	=	0.6±0.2	=	0.6±0.1	>	0.2±0.1	<	0.2±0.1	0.1±0.1	0.7±0.0	=	0.5±0.1	=	0.4±0.0	=	0.3±0.3	=		
16:1/18:4	0.2±0.1	<	0.5±0.1	<	0.8±0.1	>	0.5±0.2	=	0.4±0.1	>	0.2±0.0	<	0.2±0.1	<	0.4±0.2	=	0.4±0.1	=	0.3±0.1	=	0.4±0.1	>	0.1±0.0	=	0.1±0.0	0.1±0.0	0.2±0.1	=	0.1±0.0	=	0.2±0.1	=	0.1±0.0	=		
18:1/16:4	0.2±0.1	>	-	=	-	=	-	<	0.1±0.0	=	0.2±0.1	>	0.1±0.1	=	-	=	-	=	-	<	+	<	0.1±0.0	>	0.1±0.0	0.1±0.0	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=		
20:5/14:0	+	=	+	=	+	=	0.1±0.1	=	0.1±0.0	>	+	=	+	=	+	=	+	=	+	<	0.1±0.0	>	+	=	0.1±0.0	0.1±0.0	+	=	+	=	0.1±0.0	=	+	=	+	=
14:0/20:5	+	=	+	=	+	=	+	=	+	=	+	=	+	>	+	<	+	=	+	>	+	<	0.1±0.0	>	0.1±0.0	0.1±0.0	+	=	-	=	0.1±0.0	=	+	=	+	=
16:2/18:2	0.1±0.0	<	0.3±0.1	=	0.2±0.0	=	0.3±0.2	=	0.3±0.1	>	0.1±0.0	=	0.2±0.0	<	0.3±0.1	>	0.2±0.0	>	0.1±0.0	=	0.2±0.1	=	0.1±0.0	=	0.1±0.1	0.1±0.0	0.2±0.1	=	0.2±0.1	=	0.1±0.0	=	0.1±0.1	=		
16:1/18:3	0.1±0.0	=	-	=	0.1±0.1	=	0.2±0.1	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	-	<	+	=	0.1±0.1	>	-	<	0.1±0.0	=	0.1±0.0	+	+	=	0.1±0.0	=	+	=	0.1±0.0	=		
18:1/16:3	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=	+	=	+	<	0.1±0.0	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.0	=	0.1±0.0	0.1±0.0	0.1±0.0	=	0.1±0.0	=	0.2±0.0	=	0.1±0.1	=
14:0/20:4	+	=	+	=	+	=	0.1±0.1	=	0.1±0.1	=	0.1±0.0	=	+	>	+	=	+	=	+	=	+	=	+	=	+	+	0.1±0.1	-	=	+	=	-	=	0.1±0.0	=	
16:0/18:4	3.2±0.2	>	2.6±0.5	=	3.1±0.4	=	2.2±0.9	=	2.1±0.1	=	2.5±1.3	=	1.3±0.1	>	0.8±0.4	=	0.7±0.2	=	0.4±0.2	=	0.6±0.1	=	0.9±0.6	=	1.2±0.1	1.6±0.2	3.0±0.5	=	1.7±0.5	=	0.9±0.0	<	0.7±0.1	=		
16:1/18:2	0.1±0.1	<	0.2±0.0	=	0.2±0.0	<	0.4±0.1	>	0.1±0.0	>	0.1±0.0	<	+	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	>	+	<	+	+	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	+	=	+	=
18:1/16:2	+	=	+	=	+	<	0.1±0.0	=	0.1±0.0	>	+	<	+	<	0.1±0.0	=	+	=	0.1±0.0	=	+	=	0.1±0.0	=	+	+	+	=	+	=	0.1±0.0	>	+	=	+	=
14:0/20:3	1.2±2.0	=	+	=	+	=	+	=	0.1±0.0	>	+	=	+	=	+	=	+	=	+	<	0.1±0.0	=	+	=	+	+	+	=	+	=	-	=	-	=	-	=
16:0/18:3	3.5±0.2	=	4.4±0.8	=	4.1±0.5	=	3.1±1.4	=	3.3±0.1	>	2.0±0.7	=	2.8±0.4	=	2.6±0.8	=	2.2±0.4	>	1.5±0.4	<	2.1±0.2	=	2.0±0.6	=	3.1±0.5	2.8±0.4	4.5±0.6	=	2.0±0.4	=	3.4±0.0	=	2.2±0.5	=		

16:1/18:1	0.1±0.0 = 0.1±0.0 > + < 0.1±0.0 = 0.1±0.0 = + =	+ = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = + = + <	+ + 0.1±0.0 = + = + =	+ =
16:0/18:2	1.8±0.4 < 2.6±0.3 = 2.9±0.4 = 4.0±0.9 = 3.8±0.3 > 2.1±0.4 <	1.5±0.0 < 2.2±0.5 = 2.0±0.2 < 2.5±0.3 = 2.5±0.2 > 1.6±0.4 <	1.8±0.2 1.7±0.5 1.9±0.2 = 1.8±0.3 = 1.9±0.1 >	1.6±0.6 =
16:0/18:2	+ = + = + = + = + = + = + =	+ = + = + = + = + = + = + =	+ = + = + =	- =
18:1/16:1	+ = + = + < + = + = + =	+ = + = + = + = + = + = + =	+ = + = + =	- =
16:0/18:1	3.0±0.5 = 2.3±0.3 = 2.3±0.4 < 3.8±0.6 > 2.8±0.1 = 2.9±1.3 =	2.6±0.1 = 2.8±0.3 = 2.5±0.5 < 4.0±0.4 > 2.3±0.3 > 1.3±0.4 <	3.6±0.4 2.2±0.5 3.3±0.2 = 2.4±0.1 = 3.5±0.3 =	1.3±0.5 =
16:0/18:1	+ = + = + = + = + = + > - <	+ = + = + = + = + = + = + =	+ - - = + = + =	+ =
16:0/18:0	- = - < + > - < + = + >	+ = - = + > - = + = + >	+ + + = + = + =	- =
20:5/15:0	+ > - < + = + = + > + =	+ > - < + > - = + = + >	+ + + = + = + =	+ =
15:0/20:5	+ > + = + = + = + = + <	+ > + = + > + = + > - <	+ + + = - = + <	+ =
15:0/20:4	+ = + = + = + > + = + =	+ = + = + = + = + = + = + =	+ + + = + = + =	+ =
17:0/18:4	+ = + = + = + < 0.1±0.0 = + =	+ = + = + = + = + = + = + =	+ + + = + = + =	+ =
17:0/18:3	+ > + = + = + = + = + =	+ > + = + = + = + < + >	+ + + = + = + =	+ =
17:1/18:1	+ = - = - < + > - < + =	- = - = - = - = - = - =	- + + = + = + =	- =
17:0/18:2	+ = + = + = + = + = + =	+ = + = + = + = + = + = + =	+ + + = + = + =	+ =
16:0/19:1	- = - = - < + > - < + =	+ > - < + > - < + > - =	+ + - = - = - =	+ =
17:0/18:1	+ > + = + = + = + = + =	+ < + > + = + < + < + >	+ + + = + = + =	+ =
18:5/18:5	+ < + > - < + > - = - <	- < + > - = - = - < + >	+ - + = - = + =	+ =
18:5/18:4	0.1±0.0 < 0.4±0.0 > 0.4±0.0 > 0.2±0.0 = 0.2±0.1 > 0.1±0.0 <	0.2±0.0 < 0.6±0.0 > 0.5±0.0 > 0.2±0.0 = 0.2±0.0 > 0.1±0.1 <	0.2±0.0 0.2±0.1 0.2±0.0 = 0.1±0.0 = 0.2±0.1 =	0.2±0.1 =
20:5/16:4	0.2±0.1 = 0.4±0.3 = 0.3±0.1 = 0.2±0.2 = 0.1±0.0 > 0.1±0.0 =	0.4±0.3 < 1.5±0.8 > 0.3±0.1 = 0.5±0.3 = 0.3±0.1 > 0.2±0.0 =	0.7±0.4 0.6±0.3 0.4±0.2 = 0.1±0.0 = 2.4±0.1 >	0.1±0.0 <
18:4/18:4	30.7±3.1 < 38.4±3.1 = 39.5±0.5 > 31.5±2.5 = 32.0±2.4 > 20.0±4.4 <	34.8±4.1=33.9±2.8=34.6±3.7=31.6±1.9>27.4±2.2>22.8±2.0 <	36.2±2.730.2±1.827.0±5.8 = 20.5±1.3 = 29.4±0.6 =	26.3±7.4 =
18:3/18:4	9.8±1.3 > 4.7±0.3 > 3.1±0.6 = 3.6±1.0 = 4.1±0.2 < 9.6±2.2 >	11.1±0.4>6.1±0.5 = 6.9±0.6 > 5.6±0.6 = 5.9±0.2 <14.6±1.9 >	9.4±0.8 10.8±2.3 9.1±1.1 = 10.8±2.4 = 10.1±0.3 =	11.9±2.4 =
18:4/18:3	3.0±0.7 = 3.2±0.6 = 3.5±1.7 = 4.6±1.0 = 5.0±0.5 = 5.4±1.3 =	1.7±0.2 < 2.6±0.6 = 2.4±0.8 = 3.0±0.6 = 3.0±0.5 = 2.2±0.6 =	1.8±0.4 3.3±0.5 3.8±0.0 = 4.1±0.8 = 1.9±0.2 =	3.1±1.3 =
18:3/18:3	1.5±0.4 > 1.0±0.1 = 0.8±0.1 = 1.0±0.5 = 0.8±0.1 < 2.1±1.1 =	2.5±0.3 > 1.4±0.2 < 2.2±0.3 > 1.8±0.1 < 2.3±0.3 < 4.2±1.3 >	2.0±0.3 2.5±0.8 1.5±0.2 = 2.7±0.0 = 2.7±0.1 =	3.6±1.2 =
18:3/18:3	0.8±0.0 = 0.3±0.0 = 0.5±0.0 = 0.8±0.2 = 0.5±0.4 = 1.6±0.0 =	- < 0.3±0.0 > - < 0.7±0.0 = 0.9±0.3 = 0.9±0.4 =	0.4±0.0 - - = - = - =	- =
18:2/18:4	1.1±0.7 = 0.4±0.2 = 0.4±0.1 = 0.4±0.2 = 0.7±0.5 < 3.4±0.7 >	0.8±0.2 > 0.5±0.1 = 0.9±0.4 = 1.2±0.3 = 0.9±0.6 = 1.1±0.4 =	0.9±0.2 1.9±0.5 1.1±0.2 = 3.0±0.5 = 0.7±0.0 =	2.3±1.2 =
20:5/16:1	0.1±0.0 = 0.1±0.0 = 0.2±0.2 = 0.2±0.1 = 0.2±0.1 = 0.4±0.1 >	0.1±0.1 = 0.1±0.0 > 0.1±0.0 < 0.2±0.0 = 0.2±0.0 = 0.2±0.1 =	0.1±0.1 0.2±0.1 0.1±0.1 = 0.5±0.3 = 0.1±0.0 =	0.2±0.1 =
18:3/18:2	1.4±0.2 = 1.6±0.1 > 1.2±0.2 < 2.0±0.1 > 1.6±0.1 < 3.1±0.7 >	1.3±0.3 = 1.5±0.0 = 1.6±0.1 < 1.9±0.2 = 2.3±0.3 = 2.6±0.2 >	1.4±0.0 1.8±0.3 1.4±0.2 = 3.5±0.3 = 1.3±0.0 =	2.9±1.0 =
18:2/18:3	0.5±0.6 = 0.1±0.0 = 0.1±0.1 = 0.2±0.0 = 0.2±0.0 < 0.7±0.5 >	0.1±0.1 = 0.1±0.0 = 0.1±0.0 < 0.1±0.0 = 0.2±0.0 > 0.1±0.0 =	0.1±0.0 0.4±0.1 0.2±0.0 = 0.6±0.0 = + =	0.3±0.0 >
18:4/18:1	0.2±0.0 > 0.1±0.0 = + = + > + < 0.2±0.1 >	0.2±0.0 > 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = + < 0.1±0.0 =	0.2±0.1 0.2±0.0 0.2±0.0 = 0.1±0.0 = 0.1±0.1 =	0.1±0.0 =
18:1/18:4	+ = + = + = + = + = + < 0.1±0.0 =	+ = + = + = 0.1±0.1 = + = + =	- + + = + = + =	- =
20:5/16:0	+ > + > - < + = + = + =	+ = + = + = + = + = + = + =	0.1±0.0 + + = + = + =	+ =
20:5/16:0	+ = + = + = + = + = + = 0.1±0.0 =	+ < 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = + =	0.1±0.1 0.1±0.0 + = 0.1±0.0 = 0.1±0.0 =	0.1±0.0 =
16:0/20:5	0.1±0.0 = + = + = 0.1±0.0 = + = 0.1±0.0 =	+ = 0.1±0.0 = 0.1±0.0 = + < 0.1±0.0 = 0.1±0.0 =	0.1±0.1 0.2±0.1 + = + = 0.1±0.0 =	- =
18:2/18:2	0.8±0.1 < 1.2±0.1 = 1.1±0.3 = 1.8±0.6 = 1.5±0.1 = 1.6±0.5 =	0.6±0.1 < 1.1±0.1 > 0.9±0.0 < 1.5±0.1 = 1.7±0.4 > 0.6±0.1 <	0.6±0.0 0.7±0.1 1.0±0.2 = 1.9±0.0 = 0.5±0.0 =	0.7±0.1 =
18:3/18:1	0.3±0.1 = 0.3±0.1 > 0.1±0.0 = 0.3±0.2 = 0.2±0.0 = 0.3±0.1 =	0.4±0.1 = 0.4±0.1 = 0.3±0.1 = 0.4±0.2 = 0.3±0.0 = 0.2±0.1 <	0.6±0.1 0.4±0.1 0.4±0.1 = 0.3±0.0 = 0.5±0.0 =	0.2±0.0 =
18:1/18:3	0.3±0.1 = 0.3±0.1 > 0.1±0.0 > 0.1±0.0 = + < 0.3±0.1 >	0.4±0.1 = 0.4±0.1 = 0.3±0.1 > + > + < 0.2±0.1 >	0.6±0.1 0.4±0.1 0.4±0.1 = 0.3±0.0 = 0.5±0.0 =	0.2±0.0 =
16:0/20:4	+ = + = + < + = + = + = 0.1±0.1 =	0.1±0.0 > + = + = + = + = + = + =	0.1±0.0 0.1±0.0 + = + = + =	0.2±0.3 =
20:4/16:0	0.1±0.0 > + = + < + > + = + =	+ = + = + = + = + < 0.1±0.0 >	0.1±0.0 0.2±0.2 + = + = 0.1±0.1 =	+ =
16:0/20:4	+ = - < + = + > + = + =	+ > - < + = + = + < + =	+ + + = + = + =	+ =
20:4/16:0	+ = + < + = + = + < 0.1±0.0 >	+ = + = + = + = + < + >	+ + + = + = - =	+ =
16:0/20:4	0.8±0.4 > 0.2±0.1 = 0.2±0.1 > 0.1±0.0 = 0.2±0.2 = 0.2±0.1 >	0.2±0.1 = 0.1±0.1 = 0.1±0.0 = 0.1±0.1 = 0.1±0.0 < 0.1±0.0 =	0.2±0.0 0.1±0.1 0.6±0.1 = 0.1±0.1 = 0.1±0.0 =	0.2±0.1 =
18:0/18:4	1.1±0.1 > 0.2±0.1 = 0.1±0.1 = 0.1±0.0 = 0.1±0.1 = 0.2±0.1 =	0.1±0.0 > 0.1±0.0 = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.1±0.1 =	0.1±0.0 0.2±0.1 0.3±0.0 = 0.1±0.1 = 0.2±0.0 =	0.1±0.0 =
18:2/18:1	0.3±0.1 = 0.3±0.0 > 0.2±0.0 < 0.4±0.1 = 0.3±0.1 = 0.4±0.2 =	0.3±0.1 < 0.4±0.0 = 0.4±0.0 < 0.5±0.1 > 0.3±0.0 > 0.1±0.1 <	0.3±0.0 0.3±0.1 0.4±0.1 = 0.4±0.1 = 0.2±0.0 =	0.1±0.0 =

16:0/20:3	-	=	-	=	-	<	+	=	+	>	-	<	-	=	-	<	-	-	-	=	-	=	-	=														
20:3/16:0	+	>	+	=	+	=	+	=	+	=	+	=	+	+	=	+	=	+	+	=	+	=	+	=														
16:0/20:3	+	=	+	=	+	=	+	=	+	=	0.1±0.0	=	+	=	+	=	+	<0.1±0.0	>	0.1±0.0	+	+	=	+	=													
16:0/20:3	0.2±0.0	=	0.1±0.0	>	+	=	+	=	+	<	0.1±0.1	=	0.1±0.0	>	+	=	+	>	-	<	+	=	0.1±0.1	=	0.1±0.0	0.1±0.0	-	=	0.1±0.0	=	0.1±0.0	<	-	=				
18:0/18:3	0.3±0.2	>	0.1±0.0	=	0.1±0.0	>	+	=	0.1±0.1	=	0.1±0.1	=	0.1±0.1	=	0.1±0.0	>	+	=	+	=	0.1±0.1	=	0.2±0.2	=	0.1±0.0	0.1±0.0	0.2±0.1	=	0.1±0.0	=	0.1±0.0	=	0.3±0.1	=				
18:1/18:1	0.2±0.1	=	0.1±0.0	=	0.1±0.0	<	0.2±0.0	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.0	<	0.2±0.1	0.1±0.0	0.2±0.0	=	+	=	0.1±0.0	>	+	=		
18:0/18:2	0.1±0.0	=	+	=	+	=	+	=	0.1±0.0	>	+	=	+	<	+	=	+	=	+	=	+	=	+	=	+	+	0.1±0.0	=	+	=	+	=	+	=	0.1±0.0	=		
18:0/18:1	0.2±0.0	>	0.1±0.0	=	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.0	>	+	=	+	<	0.1±0.0	0.1±0.0	0.2±0.0	=	+	=	0.1±0.0	=	+	=
18:4/19:2	0.1±0.0	>	+	>	+	=	+	=	+	<	+	=	0.1±0.0	=	0.1±0.0	=	+	=	+	=	+	=	+	=	+	+	0.1±0.0	=	+	=	+	=	+	=	+	=		
18:3/19:2	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	+	=	+	=	+	=		
19:1/18:4	+	=	+	=	+	=	+	<	+	>	+	=	+	=	+	=	+	=	+	=	+	<	+	>	+	+	+	=	+	=	+	=	+	=	+	=		
18:3/19:1	+	=	+	=	-	<	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	+	=	+	=	+	=		
20:5/18:5	0.1±0.0	<	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.1±0.0	>	+	<	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	+	<		
20:5/18:4	13.7±0.9	<	16.4±0.9	=	15.2±3.6	=	15.1±4.1	=	15.7±0.9	=	14.5±2.1	=	16.4±1.0	<	21.5±1.8	=	24.0±1.8	>	21.4±0.6	<	23.3±1.0	=	19.1±3.7	=	15.8±0.5	17.0±3.9	14.5±0.1	=	14.8±2.3	=	16.9±0.3	=	18.0±2.1	=	18.0±2.1	=		
20:4/18:4	1.9±0.3	>	1.2±0.1	<	1.4±0.1	=	1.1±0.5	=	0.6±0.0	<	1.6±0.4	=	2.0±0.2	>	0.8±0.1	=	0.8±0.2	=	0.7±0.4	=	0.8±0.2	=	0.8±0.1	=	1.1±0.2	0.7±0.6	2.2±0.3	=	1.0±0.3	=	1.1±0.0	<	1.5±0.7	=	1.5±0.7	=		
20:5/18:3	0.4±0.2	=	0.3±0.1	=	0.3±0.1	<	0.9±0.5	=	0.6±0.2	=	0.9±0.7	=	1.1±0.2	=	0.9±0.3	<	1.5±0.4	<	2.8±0.9	=	2.3±0.4	=	4.5±2.2	=	1.4±0.2	3.0±0.5	0.3±0.1	=	1.6±0.4	=	1.6±0.5	=	2.9±0.8	=	2.9±0.8	=		
20:4/18:4	2.8±0.3	>	2.1±0.2	=	2.5±0.3	<	3.6±0.5	=	3.8±0.4	<	9.6±2.8	>	2.5±0.4	=	2.3±0.5	=	2.7±0.6	<	4.6±1.0	=	4.9±0.3	<	5.6±0.4	=	1.8±0.1	2.9±0.7	2.9±0.2	=	11.6±1.9	=	2.0±0.3	=	5.7±2.5	=	5.7±2.5	=		
20:4/18:3	0.2±0.1	>	+	=	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=	0.4±0.1	>	0.1±0.0	<	0.1±0.0	<	0.2±0.0	=	0.2±0.1	<	0.5±0.2	>	0.3±0.1	0.4±0.2	0.1±0.0	=	0.2±0.0	=	0.4±0.1	=	0.5±0.1	=	0.5±0.1	=		
20:3/18:4	1.2±0.1	>	0.4±0.0	=	0.7±0.3	=	0.8±0.2	>	0.3±0.2	<	1.1±0.6	=	0.3±0.1	=	0.2±0.1	=	0.3±0.1	=	0.2±0.0	=	0.3±0.1	=	0.3±0.1	=	0.2±0.1	0.3±0.2	1.2±0.1	=	0.4±0.2	=	0.2±0.0	=	0.3±0.2	=	0.3±0.2	=		
20:4/18:3	0.4±0.2	=	0.2±0.1	<	0.3±0.0	<	0.5±0.2	=	0.3±0.1	<	0.9±0.4	=	0.4±0.1	>	0.2±0.1	=	0.2±0.2	=	0.6±0.3	=	0.6±0.3	=	1.3±1.0	=	0.3±0.0	0.6±0.4	0.2±0.2	=	1.6±0.8	=	0.4±0.0	=	1.3±1.6	=	1.3±1.6	=		
20:5/18:2	0.1±0.1	=	0.1±0.0	=	0.1±0.0	=	0.3±0.1	=	0.2±0.1	=	1.1±1.1	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	<	0.4±0.2	=	0.3±0.1	=	0.8±0.2	=	0.1±0.0	0.3±0.0	-	=	0.8±0.8	=	+	=	-	=	-	=		
18:3/20:4	0.1±0.0	>	+	=	0.1±0.0	=	0.1±0.1	=	0.1±0.0	<	0.8±0.5	>	0.1±0.0	=	+	=	+	<	0.1±0.0	=	0.1±0.1	=	0.2±0.1	>	0.1±0.0	0.1±0.1	0.1±0.0	=	0.6±0.1	=	+	=	0.3±0.3	=	0.3±0.3	=		
20:3/18:3	0.2±0.1	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.3±0.0	>	0.2±0.1	>	0.1±0.0	<	0.1±0.0	<	0.2±0.0	=	0.2±0.0	=	0.2±0.1	=	0.1±0.0	0.2±0.1	0.2±0.1	=	0.3±0.0	=	0.1±0.0	=	0.3±0.1	=	0.3±0.1	=		
20:4/18:2	0.1±0.1	=	0.1±0.0	=	0.1±0.0	<	0.2±0.1	=	0.2±0.1	<	0.7±0.4	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.2±0.0	=	0.2±0.1	=	0.4±0.2	=	0.1±0.0	0.2±0.1	0.1±0.0	=	0.5±0.1	=	0.1±0.0	=	0.4±0.1	=	0.4±0.1	=		
20:5/18:1	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=	0.1±0.0	=	0.1±0.1	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.2±0.1	=	0.1±0.1	=	0.1±0.0	=	0.1±0.0	0.2±0.1	0.1±0.0	=	-	=	0.1±0.0	=	+	<	+	<		
20:3/18:2	0.1±0.0	>	0.1±0.0	=	0.1±0.0	<	0.2±0.0	=	0.2±0.0	=	0.2±0.0	>	0.1±0.0	>	0.1±0.0	=	0.1±0.0	<	0.2±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	0.1±0.0	0.1±0.0	=	0.2±0.0	=	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=		
20:4/18:1	0.1±0.0	>	+	=	+	<	+	=	+	<	0.1±0.1	=	+	=	+	=	+	=	0.1±0.0	>	+	=	+	=	0.1±0.1	0.1±0.0	0.1±0.0	=	0.1±0.0	=	+	=	+	=	+	=		
20:5/18:0	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	>	+	<	+	=	+	+	+	+	+	=	-	=	+	=	+	<	+	<		
20:3/18:1	+	=	+	=	+	=	+	=	0.1±0.0	=	0.1±0.0	>	+	=	+	=	+	<	0.1±0.0	=	+	=	0.1±0.0	=	+	0.1±0.0	0.1±0.0	=	+	<	+	=	+	=	+	=		
20:0/18:4	0.1±0.0	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.0	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	+	+	0.1±0.0	=	0.1±0.1	=	+	<	0.1±0.0	=	0.1±0.0	=		
20:0/18:3	+	=	+	<	+	=	+	=	+	<	+	>	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	<	+	=	+	=	+	=		
20:5/20:5	+	<	0.1±0.0	=	0.1±0.0	<	0.4±0.2	=	0.4±0.0	>	+	<	0.2±0.0	=	0.2±0.1	=	0.2±0.1	<	0.5±0.0	<	0.9±0.2	>	0.2±0.1	<	0.3±0.0	0.5±0.1	+	=	+	=	0.2±0.1	=	0.2±0.2	=	0.2±0.2	=		
20:5/20:4	0.1±0.0	>	+	<	0.1±0.0	=	0.1±0.1	=	0.1±0.0	>	+	<	0.2±0.0	=	0.1±0.1	=	0.1±0.0	<	0.2±0.0	<	0.3±0.1	>	0.2±0.0	=	0.2±0.0	0.2±0.1	0.1±0.0	=	0.1±0.0	=	0.3±0.1	=	0.2±0.2	=	0.2±0.2	=		
20:4/20:5	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.5±0.3	=	0.7±0.1	>	0.2±0.2	=	0.2±0.1	=	0.2±0.1	=	0.2±0.1	<	1.0±0.1	<	1.6±0.3	>	0.8±0.4	=	0.5±0.1	0.9±0.3	0.1±0.0	=	0.3±0.0	=	0.4±0.1	=	1.1±0.4	=	1.1±0.4	=		
20:5/20:3	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.2±0.1	=	0.2±0.0	>	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	0.2±0.1	=	0.3±0.1	<	0.4±0.1	=	0.3±0.1	=	0.1±0.0	0.2±0.1	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.2±0.0	=	0.2±0.0	=		
20:4/20:4	+	=	+	=	+	=	0.1±0.1	<	0.2±0.0	=	0.5±0.3	=	0.1±0.0	>	0.1±0.0	=	0.1±0.0	<	0.2±0.1	=	0.3±0.0	<	1.3±0.9	>	0.1±0.1	0.7±0.1	0.1±0.0	=	0.6±0.1	=	0.2±0.0	=	1.2±0.1	=	1.2±0.1	=		
20:4/20:3	-	=	-	=	-	<	+	>	-	<	+	=	+	>	-	=	-	<	+	=	+	>	+	>	-	+	-	=	-	=	-	=	-	=	-	=		
SFA/SFA	+	>	+	=	+	=	+	=	+	<	0.1±0.0	>	+	=	+	>	+	=	+	=	+	<	+	>	0.1±0.0	0.1±0.1	0.1±0.0	>	0.1±0.1	=	0.1±0.0	=	+	=	+	=		
SFA/MUFA	5.5±1.0	>	3.8±0.5	=	3.4±0.6	<	6.1±0.8	>	5.0±0.3	=	5.0±2.3	=	4.7±0.1	=	4.5±0.3	>	3.7±0.5	<	5.8±0.6	>	3.5±0.3	>	2.4±0.8	<	5.8±0.4	3.5±0.8	6.6±0.5	=	4.0±0.1	=	6.5±0.4	=	2.1±0.7	=	2.1±0.7	=		
MUFA/SFA	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	-	-	=	-	=	-	=	-	=	-	=		
SFA/PUFA	15.4±1.5	>	12.9±1.5	=	13.4±1.7	=	13.1±4.3	=	15.7±0.5	>	8.9±1.9	=	10.9±0.4	=	9.4±1.5	=	7.8±1.1	=	6.6±0.9	<	8.4±0.5	=	7.7±1.5	=	10.7±1.4	9.0±0.7	16.4±1.4	=	7.5±0.0	=	12.2±0.2	>	7.7±1.0	=	7.7±1.0	=		
PUFA/SFA	0.2±0.0	=	0.1±0.1	=	0.1±0.0	<	0.3±0.0	=	0.3±0.0	=	0.3±0.1	=	0.2±0.1	=	0.3±0.0	=	0.2±0.0	=	0.2±0.0	=	0.3±0.1	=	0.3±0.1	=	0.5±0.1	0.6±0.3	0.2±0.0	=	0.2±0.0	=	0.4±0.1	=	0.3±0.0	=	0.3±0.0	=		
MUFA/MUFA	0.3±0.1	=	0.2±0.0	>	0.1±0.0	<	0.3±0.0	>	0.2±0.1	=	0.1±0.1	<	0.1±0.0	<	0.2±0.0	=	0.2±0.1	=	0.2±0.0	>	0.1±0.0	=	0.1±0.0	<	0.3±0.0	0.2±0.1	0.3±0.0	=	0.1±0.0	=	0.3±0.0	>	0.1±0.0	=	0.1±0.0	=		

MUFA/PUFA	1.4±0.5	<	2.1±0.3	=	2.4±0.3	=	2.3±0.4	>	1.7±0.2	=	1.5±0.3	<	1.5±0.2	<	2.1±0.2	>	1.7±0.2	=	1.6±0.2	=	1.4±0.2	>	0.8±0.2	<	1.4±0.4	1.1±0.2	2.0±0.1	=	1.3±0.1	=	1.9±0.1	=	0.9±0.3	=
PUFA/MUFA	1.1±0.3	=	0.9±0.1	=	0.7±0.2	=	1.2±0.5	=	0.9±0.1	<	1.5±0.4	=	1.2±0.3	=	1.2±0.1	=	1.1±0.2	<	1.5±0.2	>	1.0±0.0	>	0.9±0.1	<	2.3±1.4	1.5±0.1	1.3±0.2	=	1.4±0.4	=	1.2±0.2	=	0.8±0.0	=
PUFA/PUFA	76.1±2.0	<	80.0±2.0	=	80.0±2.2	=	76.8±3.1	=	76.4±0.2	<	82.7±4.7	=	81.3±0.6	=	82.3±1.6	<	85.3±1.2	=	84.1±1.6	=	85.3±0.4	=	88.0±2.4	>	79.1±1.5	84.1±1.0	73.2±2.3	=	85.4±0.5	=	77.6±0.7	<	88.0±1.3	=

DGDG	The lower part of the blades of infected <i>U. pinnatifida</i> samples							The upper intact part of the blades of infected <i>U. pinnatifida</i> samples							The upper part of the blades of infected <i>U. pinnatifida</i> samples with endophyte	The lower part of the blades of uninfected <i>U. pinnatifida</i> samples		The upper part of the blades of uninfected <i>U. pinnatifida</i> samples								
	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T		Nov.	Jun.	Nov.	S	Jun.	S	Nov.	S	Jun.	S	
14:0/16:2	+	=	+	=	+	=	+	=	+	=	+	=	+	=	0.1±0.0	=	+	+	+	=	-	=	0.1±0.0	=	0.1±0.0	=
14:0/16:1	0.1±0.0	=	+	=	+	=	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.3±0.2	0.1±0.0	0.1±0.0	=	0.2±0.0	=	0.5±0.0	>	0.1±0.1	=
14:0/16:0	0.1±0.0	>	-	=	-	<	+	=	+	=	+	=	+	>	-	<	0.1±0.0	0.1±0.0	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=	+	=
16:1/16:4	0.1±0.0	>	+	=	+	=	0.1±0.0	=	+	=	0.1±0.2	=	0.1±0.1	=	+	=	0.1±0.1	0.2±0.0	+	=	-	=	0.1±0.1	=	+	=
16:2/16:2	+	=	+	=	+	=	0.1±0.0	=	+	>	-	<	+	=	0.1±0.0	>	+	=	+	>	+	>	-	<	+	=
16:3/16:1	+	>	-	=	-	<	+	=	+	>	-	<	+	=	-	=	+	=	+	>	+	<	0.2±0.0	>	+	=
14:0/18:4	2.0±0.4	=	2.7±1.0	<	4.8±0.8	=	3.8±1.7	=	3.0±0.2	>	0.5±0.1	<	1.9±0.1	=	2.0±0.5	=	2.0±0.3	>	1.3±0.5	=	1.0±0.2	=	0.6±0.4	=	1.7±0.4	0.4±0.2
16:1/16:2	+	>	-	<	+	=	+	=	+	>	-	<	-	=	-	=	+	=	1.2±1.6	=	+	<	0.1±0.0	=	+	=
14:0/18:3	4.0±1.3	>	1.4±0.7	<	2.6±0.2	=	2.8±0.6	=	3.7±0.6	=	3.6±0.7	=	6.4±0.9	>	3.7±0.9	=	3.8±0.4	>	2.1±0.3	=	2.5±0.6	=	4.1±2.0	=	5.5±0.5	3.3±0.4
16:1/16:1	+	=	+	>	+	<	+	>	+	>	-	<	0.1±0.1	=	+	=	+	=	+	=	-	<	0.2±0.0	>	0.2±0.1	0.2±0.2
14:0/18:2	0.4±0.1	>	0.2±0.1	=	0.3±0.2	<	0.8±0.1	=	0.7±0.1	=	1.2±0.8	=	0.3±0.0	<	0.4±0.0	=	0.3±0.1	=	0.3±0.1	=	0.4±0.2	=	0.6±0.3	=	0.5±0.2	0.6±0.0
14:0/18:1	0.3±0.1	=	0.1±0.0	=	0.1±0.1	=	0.2±0.1	=	0.1±0.0	<	0.6±0.2	>	0.2±0.1	=	0.2±0.1	=	0.1±0.0	<	0.3±0.1	=	0.2±0.0	=	0.3±0.1	=	0.6±0.0	0.5±0.1
16:0/16:1	+	>	-	=	-	<	+	=	+	=	+	=	-	=	-	=	-	=	-	=	-	=	-	=	0.1±0.0	-
16:0/16:0	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	-
15:0/18:4	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=	+	<	0.2±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	0.1±0.0
15:0/18:3	0.1±0.0	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	0.2±0.0	=	0.1±0.0	=	0.1±0.1	>	+	<	0.1±0.0	<	0.4±0.1	>	0.2±0.0	0.3±0.1
15:0/18:2	-	=	-	<	+	=	+	>	+	>	-	<	0.1±0.0	>	-	<	+	=	+	=	+	>	-	<	+	0.1±0.0
18:3/16:2	+	=	+	<	0.1±0.0	=	0.2±0.1	>	0.1±0.0	=	+	<	+	<	0.1±0.0	<	0.1±0.0	=	0.1±0.0	<	0.3±0.1	=	0.2±0.1	=	+	0.2±0.0
16:2/18:3	-	=	-	=	-	<	0.3±0.0	>	-	=	-	<	-	=	-	=	-	<	0.3±0.0	=	0.4±0.0	>	-	<	-	-
16:1/18:4	0.1±0.0	<	0.2±0.0	=	0.2±0.1	=	0.2±0.1	=	0.2±0.0	=	0.2±0.1	=	0.2±0.0	<	0.3±0.1	=	0.4±0.1	=	0.4±0.2	=	0.5±0.2	>	+	<	0.1±0.0	0.1±0.0
20:5/14:0	0.1±0.0	=	+	=	0.1±0.0	=	0.1±0.0	=	+	=	0.1±0.0	=	+	=	+	=	+	=	+	=	+	=	+	=	0.1±0.0	0.1±0.0
16:1/18:3	0.1±0.1	=	0.2±0.1	<	0.3±0.0	<	0.7±0.3	>	0.2±0.0	>	0.1±0.1	<	0.3±0.2	=	0.5±0.1	=	0.6±0.0	=	0.8±0.1	=	0.7±0.2	>	0.3±0.1	<	0.2±0.0	0.1±0.0
18:1/16:3	+	=	+	=	+	=	+	=	+	<	0.1±0.0	=	+	=	+	=	+	=	+	=	+	=	0.1±0.0	>	0.1±0.0	0.1±0.0
20:4/14:0	-	=	-	=	-	<	+	>	-	<	0.2±0.0	>	-	=	-	=	-	<	+	=	+	<	0.3±0.0	>	-	-
16:0/18:4	3.0±0.2	<	6.3±1.3	<	11.2±1.5	=	9.5±4.4	=	6.1±0.3	>	1.3±0.6	<	2.3±0.1	<	3.7±1.2	=	3.6±0.8	>	1.9±0.9	=	1.9±0.4	>	0.6±0.3	<	2.4±0.1	1.4±0.4
16:1/18:2	+	>	+	=	+	=	0.1±0.0	=	1.6±2.7	=	+	=	+	=	+	=	+	<	0.1±0.0	=	0.1±0.1	>	-	<	3.1±4.4	-
14:0/20:3	+	>	-	=	-	<	+	>	-	=	-	<	-	=	-	<	+	=	+	>	-	=	-	<	-	-
16:0/18:3	4.9±1.1	>	2.7±0.6	<	3.9±0.2	<	6.0±0.5	=	5.0±0.9	=	4.5±0.4	<	5.3±0.5	=	4.7±0.5	<	6.0±0.6	>	4.1±0.6	=	4.3±0.4	=	4.6±1.0	=	6.7±0.6	6.4±1.3
16:1/18:1	-	=	-	<	+	=	+	>	-	=	-	<	+	>	-	<	+	=	+	=	+	>	-	<	0.1±0.1	-
16:0/18:2	0.3±0.0	>	0.1±0.0	=	0.3±0.1	<	0.6±0.1	=	0.7±0.2	=	0.8±0.3	=	0.3±0.2	=	0.4±0.1	=	0.4±0.0	<	0.6±0.1	=	0.6±0.1	=	0.7±0.3	=	0.6±0.1	1.1±0.4
16:0/18:1	0.1±0.1	=	0.2±0.1	=	0.1±0.0	<	0.3±0.1	=	0.2±0.0	=	0.4±0.3	=	0.3±0.0	>	0.2±0.0	<	0.3±0.1	=	0.5±0.2	>	0.3±0.0	=	0.5±0.2	=	1.2±0.3	1.3±0.5
18:5/18:4	+	=	0.1±0.1	=	0.2±0.1	=	0.1±0.1	=	0.1±0.0	>	-	<	+	<	0.4±0.2	>	0.1±0.1	=	0.1±0.1	=	0.1±0.1	=	0.2±0.1	=	0.1±0.1	0.1±0.0

20:5/16:4	0.1±0.0 = + = + = + > - < + =	- < 0.1±0.0 = 0.1±0.0 = 0.1±0.1 = + > - =	- 0.1±0.0	- =	- =	+	=	-	=
18:4/18:4	2.3±0.5 = 2.4±0.3 = 2.5±0.3 = 2.0±0.3 > 1.3±0.1 = 1.1±0.5 <	2.8±0.5 < 4.0±0.5 = 4.3±0.5 = 3.5±0.9 = 2.6±0.1 > 1.9±0.3 <	3.5±0.3 2.7±0.2	1.7±0.1 =	0.9±0.5 =	3.2±0.3 =	2.6±1.0 =		
20:5/16:3	+ = + = + > - < + = + >	+ = + > + = + < + > - <	+ +	- =	- =	- =	+ =		
18:3/18:4	1.1±0.4 = 1.1±0.3 = 1.1±0.7 = 1.0±0.5 = 0.8±0.4 = 1.0±0.6 =	1.7±0.7 = 3.2±1.2 = 4.3±0.7 = 4.4±1.3 = 3.3±0.4 > 1.9±1.0 <	3.5±1.5 2.0±2.3	0.8±0.3 =	0.3±0.2 =	5.3±0.6 >	4.0±1.5 =		
20:5/16:2	0.3±0.2 > - < 0.4±0.1 = 0.4±0.2 = 0.1±0.1 = 0.5±0.4 =	1.2±0.5 > - = - < 0.2±0.2 = 0.1±0.0 < 2.6±0.4 >	2.1±0.0 2.9±0.5	0.4±0.1 =	0.9±0.4 =	- =	0.5±0.0 =		
16:3/20:4	0.1±0.0 = 0.1±0.1 = 0.1±0.0 = 0.1±0.1 = 0.1±0.1 = 0.2±0.2 =	0.1±0.0 = 0.1±0.1 = 0.1±0.0 = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 =	0.3±0.0 0.1±0.0	0.2±0.0 =	- =	0.2±0.1 =	0.1±0.1 =		
18:3/18:3	0.6±0.2 < 1.3±0.5 = 1.8±0.4 = 1.8±1.2 = 1.2±0.2 = 1.1±0.6 =	2.0±0.4 < 4.0±1.0 < 5.9±0.4 = 5.1±1.1 = 5.2±1.0 = 4.9±1.1 =	2.6±0.1 3.1±0.7	0.7±0.2 =	1.0±0.4 =	2.8±0.6 =	3.8±1.7 =		
18:3/18:3	+ < 0.1±0.0 = 0.2±0.0 > - < 0.1±0.0 = 0.1±0.1 >	0.1±0.0 = 0.2±0.1 = 0.2±0.1 > - < 0.1±0.0 = 0.3±0.3 >	0.1±0.0 0.1±0.0	0.1±0.0 =	0.1±0.0 =	0.1±0.1 =	0.1±0.1 =		
20:5/16:1	0.3±0.2 = 0.1±0.1 = 0.1±0.0 = 0.2±0.1 = 0.1±0.0 < 0.4±0.1 >	0.1±0.0 = 0.1±0.1 = 0.2±0.0 = 0.3±0.1 > + = 0.3±0.2 =	0.1±0.1 0.3±0.1	0.1±0.0 =	0.2±0.0 =	0.3±0.1 =	0.3±0.0 =		
18:5/18:1	+ = + = + = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 =	+ = + < 0.1±0.0 < 0.2±0.0 > + < 0.3±0.0 =	0.1±0.2 0.1±0.1	+ =	- =	+	+		
18:3/18:2	0.1±0.1 = 0.2±0.1 = 0.2±0.1 = 0.6±0.3 = 0.5±0.1 = 0.7±0.4 =	0.3±0.1 = 0.4±0.2 < 0.7±0.1 < 1.6±0.6 = 1.1±0.4 = 0.8±0.8 =	0.4±0.1 0.8±0.4	0.1±0.0 =	0.5±0.0 =	0.4±0.1 =	0.8±0.3 =		
20:4/16:1	+ = 0.1±0.0 = + = + = + < 0.2±0.1 >	0.1±0.1 = 0.1±0.0 = 0.1±0.0 = + = 0.1±0.0 = 0.1±0.1 =	+ 0.1±0.0	+ =	0.2±0.0 =	+	0.1±0.0 =		
20:5/16:0	0.3±0.2 = 0.1±0.1 = 0.2±0.1 = 0.2±0.1 = 0.2±0.1 < 0.7±0.3 >	0.3±0.1 = 0.4±0.1 = 0.3±0.1 = 0.3±0.1 = 0.5±0.1 = 0.4±0.1 =	0.7±0.1 0.4±0.3	0.3±0.0 =	0.6±0.2 =	0.5±0.0 =	0.5±0.1 =		
18:2/18:2	0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.3±0.0 = 0.2±0.2 = 0.2±0.1 =	0.1±0.0 < 0.1±0.0 < 0.2±0.0 < 0.6±0.1 = 0.4±0.2 = 0.2±0.1 <	0.1±0.1 0.3±0.3	0.1±0.0 =	0.2±0.2 =	0.2±0.0 >	0.2±0.0 =		
18:1/18:3	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.1 = + =	0.1±0.1 < 0.2±0.0 = 0.2±0.1 = 0.2±0.1 = 0.2±0.1 > 0.1±0.0 =	0.2±0.1 0.2±0.1	0.1±0.0 =	0.3±0.0 =	0.1±0.0 =	0.1±0.0 =		
16:0/20:4	+ = + = + = 0.1±0.0 = + = 0.1±0.1 =	0.1±0.0 = + = + = + = + < 0.2±0.1 >	0.2±0.0 0.4±0.3	+ =	- =	0.1±0.0 =	0.2±0.0 =		
20:4/16:0	0.1±0.0 > - = - < + = + < 0.3±0.2 >	+ = - = + = + = + < 0.1±0.1 >	+ 0.2±0.0	+ =	0.4±0.2 =	+	0.2±0.0 =		
18:0/18:4	0.5±0.1 = 0.7±0.2 = 0.5±0.0 = 0.6±0.3 = 0.5±0.1 > 0.2±0.0 <	0.4±0.1 = 0.6±0.2 = 0.5±0.1 > 0.2±0.1 = 0.2±0.1 = 0.2±0.1 =	0.4±0.1 0.3±0.1	0.5±0.2 =	0.1±0.0 =	0.3±0.1 =	0.1±0.0 =		
18:2/18:1	+ = - < + = 0.1±0.1 = + = 0.1±0.0 =	- = - = + < 0.1±0.0 > 0.1±0.0 = + <	0.1±0.0 0.1±0.1	+ =	0.1±0.0 =	0.1±0.0 =	+		
18:0/18:3	0.3±0.1 > 0.1±0.0 = 0.1±0.0 < 0.2±0.1 = 0.2±0.1 < 0.5±0.2 >	0.4±0.2 = 0.3±0.1 = 0.3±0.1 = 0.2±0.0 > 0.2±0.0 < 0.8±0.4 >	0.5±0.1 0.3±0.0	0.4±0.0 =	0.5±0.1 =	0.4±0.2 =	0.5±0.0 =		
18:1/18:1	+ > - = - < + = + = + <	+ = - = + = + = + = 0.1±0.1 =	+ 0.1±0.0	+ =	- =	+	0.1±0.0 =		
18:0/18:2	+ > - < + = + = + = 0.1±0.0 >	+ = - = - = - < + > - =	+ +	+ =	0.2±0.0 =	+	+		
18:0/18:1	0.1±0.0 > - < + = + > + = 0.1±0.1 =	+ > - = + = + = + = + =	0.1±0.1 0.1±0.0	+ =	0.1±0.0 =	+	0.1±0.0 =		
18:2/19:2	- = - = - = - = - = - =	+ > - < + < 0.1±0.0 = 0.1±0.0 = 0.1±0.0 =	0.2±0.1 0.5±0.4	- =	- =	0.1±0.1 =	0.1±0.2 =		
18:3/19:1	- = - = - = - = - = - =	- = - = - < + = + > - <	- -	- =	- =	- =	+		
20:5/18:5	+ = 0.1±0.0 = + > - < + > - =	+ = + > - < + = + = + =	+ -	+ =	- =	+	+		
20:5/18:4	67.2±3.5 = 73.2±4.6 > 61.1±1.9 = 55.5±4.7 = 61.3±2.3 > 50.7±3.6 =	62.0±1.1=63.6±4.2=58.2±2.3=60.4±0.6 = 62.7±5.0 > 49.0±2.7 <	57.0±2.856.7±3.7	65.2±1.9 =	45.8±6.0 =	56.2±2.2 =	50.5±5.4 =		
20:5/18:3	1.6±0.5 > 1.0±0.2 > 0.7±0.1 < 1.5±0.2 = 1.1±0.3 < 2.5±0.4 >	1.4±0.5 = 1.0±0.3 = 1.1±0.2 < 1.4±0.1 = 1.6±0.2 < 7.4±4.6 >	1.6±0.3 4.7±1.0	1.2±0.2 =	1.4±0.1 <	2.0±0.1 =	4.9±0.3 =		
20:4/18:4	8.6±0.8 > 4.6±0.2 < 6.3±1.0 < 8.8±0.8 = 9.6±0.9 < 23.4±1.4 >	8.2±0.8 > 4.1±0.5 = 4.6±0.8 < 6.7±1.2 = 7.2±1.1 = 12.1±4.5 >	4.6±0.3 7.2±3.3	8.8±0.4 =	30.0±6.4 =	6.3±0.0 =	14.5±7.5 =		
20:4/18:3	0.5±0.1 > 0.2±0.1 = 0.1±0.1 < 0.5±0.1 > 0.3±0.1 < 1.7±0.9 >	0.6±0.1 > 0.2±0.0 > 0.1±0.1 < 0.5±0.1 > 0.3±0.0 < 3.5±1.3 >	0.4±0.1 1.1±0.6	0.5±0.0 =	3.0±0.3 =	0.5±0.3 =	2.5±1.1 =		
20:5/18:2	0.2±0.1 = + = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.8±0.5 >	- < + = 0.1±0.1 = 0.1±0.0 = 0.3±0.3 = 0.1±0.0 =	0.1±0.0 0.4±0.0	+ =	0.5±0.4 =	0.1±0.1 =	0.2±0.1 =		
18:3/20:4	0.1±0.1 = + = 0.1±0.1 = + = 0.1±0.1 = 0.5±0.6 =	- < + = + = + = + < + =	0.1±0.0 0.1±0.1	+ =	0.6±0.3 =	+	+		
20:4/18:2	0.1±0.0 > + = + = + = + = 0.1±0.1 =	+ = + = + = + = + < 0.2±0.1 >	0.1±0.0 0.1±0.1	+ =	- =	+	+		
20:5/18:1	+ > - < + = + = + < 0.2±0.1 >	+ = - < + = + = + = 0.2±0.3 =	+ 0.1±0.1	+ =	0.4±0.2 =	0.1±0.0 =	0.1±0.0 =		
SFA/SFA	0.1±0.0 > + = + = + = + = 0.1±0.1 =	+ = + = + = + = + = + =	+ +	0.1±0.0 =	0.1±0.0 =	0.1±0.1 =	0.1±0.0 =		
SFA/MUFA	0.4±0.2 = 0.3±0.2 = 0.3±0.1 < 0.5±0.2 = 0.4±0.0 < 1.1±0.5 =	0.7±0.2 = 0.5±0.1 = 0.5±0.1 = 0.9±0.3 = 0.6±0.1 = 0.7±0.4 =	2.1±0.3 1.8±0.6	0.5±0.0 =	0.8±0.3 =	1.6±0.0 >	0.6±0.4 =		
MUFA/SFA	- = - = - = - = - = - =	- = - = - = - = - = - =	- -	- =	- =	- =	- =		
SFA/PUFA	15.7±3.1 = 14.3±3.9 < 23.9±2.2 = 24.5±6.6 = 20.1±1.6 > 12.8±0.7 <	17.8±1.0=15.9±1.8=17.2±1.7>10.8±2.5 = 11.3±1.5 = 12.9±3.3 =	18.7±1.014.5±0.9	18.9±1.2 =	11.2±0.5 =	18.2±1.1 =	12.9±1.9 =		
PUFA/SFA	0.4±0.2 > 0.1±0.1 < 0.3±0.1 = 0.3±0.1 = 0.3±0.1 < 1.1±0.2 >	0.4±0.1 = 0.5±0.1 = 0.4±0.0 = 0.4±0.1 < 0.5±0.1 = 0.6±0.2 >	0.8±0.1 0.4±0.3	0.3±0.0 =	1.2±0.1 =	0.6±0.1 =	0.6±0.2 =		
MUFA/MUFA	+ = + = + < + > + = + <	0.1±0.1 = + = + = + = + < 0.1±0.1 =	0.2±0.1 0.2±0.1	+ =	+	0.3±0.0 >	0.1±0.1 =		
MUFA/PUFA	0.4±0.2 = 0.5±0.1 = 0.6±0.1 < 1.1±0.2 = 2.1±2.6 = 0.4±0.1 <	0.7±0.2 < 1.2±0.2 < 1.4±0.0 = 2.3±1.1 = 1.5±0.5 > 0.5±0.1 <	2.7±3.8 0.5±0.3	0.4±0.0 =	0.7±0.2 =	0.9±0.3 =	0.5±0.1 =		
PUFA/ MUFA	+ = + = + = 0.1±0.1 = + = 0.2±0.2 =	+ < + = 0.1±0.0 < 0.2±0.1 = 0.1±0.0 = 0.2±0.2 =	0.1±0.1 0.2±0.0	+ =	0.5±0.2 =	0.1±0.0 =	0.1±0.0 =		
PUFA/PUFA	83.1±3.6 = 84.8±4.1 > 74.9±2.1 = 73.5±6.2 = 77.1±2.4 < 84.5±1.3 >	80.4±1.5=81.9±2.0=80.4±1.8<85.5±3.2 = 86.0±2.0 = 85.0±3.4 =	75.4±2.782.3±1.4	79.8±1.1 =	85.6±0.3 =	78.3±1.3 =	85.3±1.7 =		

SQDG	The lower part of the blades of infected <i>U. pinnatifida</i> samples							The upper intact part of the blades of infected <i>U. pinnatifida</i> samples							The upper part of the blades of infected <i>U. pinnatifida</i> samples with endophyte		The lower part of the blades of uninfected <i>U. pinnatifida</i> samples				The upper part of the blades of uninfected <i>U. pinnatifida</i> samples									
	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Jun.	Nov.	S	Jun.	S	Nov.	S	Jun.	S						
14:0/14:0	0.7±0.2	> 0.2±0.1	= 0.1±0.0	< 0.3±0.1	= 0.2±0.2	< 0.5±0.1	=	1.1±0.6	= 0.8±0.3	> 0.2±0.1	< 0.4±0.2	> 0.1±0.0	< 0.9±0.5	=	1.5±0.8	1.2±0.2	0.7±0.2	=	0.9±0.2	=	3.7±0.3	>	0.7±0.2	=						
14:0/16:2	0.1±0.0	= 0.3±0.4	= 0.2±0.1	= 0.1±0.1	= 0.1±0.1	= 0.1±0.1	=	0.1±0.1	= 0.5±0.4	= 0.3±0.1	= 0.2±0.0	= 0.2±0.1	= 0.2±0.0	=	0.1±0.0	0.2±0.2	0.2±0.1	=	0.2±0.0	=	0.3±0.0	>	+	=						
14:0/16:1	0.5±0.2	= 0.2±0.0	= 0.4±0.2	= 0.5±0.1	> 0.2±0.1	< 0.5±0.1	=	0.9±0.3	= 0.9±0.2	> 0.5±0.2	= 0.5±0.1	> 0.4±0.1	= 0.5±0.3	=	1.2±0.8	0.5±0.2	0.6±0.1	=	0.8±0.3	=	1.2±0.4	=	0.4±0.2	=						
14:0/16:0	7.9±1.4	> 0.7±0.4	= 1.0±0.0	= 0.7±0.4	= 1.0±0.2	< 7.5±2.1	>	5.8±1.1	> 1.2±0.2	= 1.2±0.3	> 0.7±0.3	= 0.8±0.2	< 4.6±2.5	>	6.5±0.4	6.0±1.7	7.7±1.2	=	7.4±0.6	=	5.5±0.3	=	5.4±0.3	=						
15:1/16:1	-	=	-	=	-	<	+	>	-	=	-	=	-	<	0.1±0.0	+	+	=	-	=	+	=	-	=						
16:1/15:0	+	=	-	<	0.1±0.0	=	+	=	0.1±0.1	>	-	<	-	<	+	-	+	=	-	=	+	=	0.1±0.0	=						
15:0/16:0	+	>	-	=	-	=	-	=	-	<	0.2±0.0	>	-	<	0.1±0.0	0.1±0.0	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=						
14:0/18:4	0.4±0.1	= 0.4±0.2	= 0.3±0.2	= 0.1±0.0	= 0.1±0.0	= 0.1±0.0	=	0.3±0.2	< 0.8±0.3	> 0.4±0.1	= 0.3±0.1	= 0.2±0.1	= 0.1±0.1	=	0.2±0.1	0.2±0.0	0.2±0.0	=	0.1±0.0	=	1.1±0.1	>	0.1±0.0	=						
14:0/18:3	6.3±1.2	= 5.2±0.8	= 4.9±0.5	> 3.3±0.1	= 3.3±0.4	= 4.0±1.4	=	5.2±1.5	= 6.0±1.0	> 4.7±0.3	> 2.3±0.5	= 2.4±0.4	= 3.4±0.9	=	3.5±0.3	2.2±0.3	6.4±1.0	=	4.2±0.5	=	3.9±0.7	=	3.9±0.3	=						
14:0/18:2	3.7±1.2	> 1.4±0.7	= 2.1±0.8	< 4.4±1.6	= 4.3±0.8	< 6.0±1.2	=	4.4±0.2	> 2.3±0.8	= 2.7±0.9	= 2.8±0.8	= 3.3±0.4	< 6.7±1.3	>	3.0±0.5	3.9±1.7	2.8±0.1	=	4.7±2.0	=	2.9±0.1	<	7.0±3.0	=						
14:0/18:1	2.0±0.3	> 1.1±0.7	= 1.8±0.8	= 2.1±0.5	= 1.4±0.6	< 2.3±0.5	=	2.1±0.5	= 1.8±0.9	= 1.6±0.7	< 2.6±0.2	> 1.9±0.5	= 2.4±1.4	=	2.0±0.8	2.1±0.8	2.5±0.0	=	1.8±0.5	=	2.7±0.1	=	2.2±0.6	=						
16:1/16:0	0.9±0.0	= 0.8±0.0	= 0.8±0.0	= 0.5±0.3	= 1.1±0.7	= 0.6±0.0	=	1.0±0.0	= 0.6±0.0	= 1.2±0.0	> 0.4±0.1	< 1.3±0.5	= 1.3±0.0	>	0.9±0.0	1.4±0.5	-	=	-	=	-	=	-	=						
16:0/16:0	2.0±0.4	> 0.9±0.1	> 0.5±0.0	= 0.4±0.1	< 0.7±0.2	< 4.0±0.5	>	1.9±1.7	= 0.6±0.1	< 0.9±0.2	= 0.8±0.4	= 1.4±0.4	< 7.4±0.8	>	3.4±0.3	6.0±0.8	1.7±0.2	=	3.8±0.8	=	3.6±0.5	=	6.3±1.5	=						
15:0/18:3	0.2±0.1	>	-	<	0.1±0.1	= 0.1±0.1	= 0.2±0.1	= 0.2±0.1	=	0.2±0.1	>	-	<	0.2±0.1	= 0.1±0.1	= 0.2±0.1	0.1±0.0	=	0.5±0.3	=	0.2±0.0	=	0.3±0.3	=						
15:0/18:2	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=	-	=						
15:0/18:1	0.3±0.2	= 0.4±0.2	= 0.4±0.2	= 0.5±0.3	= 0.3±0.1	= 0.5±0.3	=	0.6±0.1	= 0.6±0.2	= 0.6±0.1	= 0.6±0.1	= 0.4±0.2	= 0.5±0.3	=	0.5±0.1	0.6±0.2	0.4±0.2	=	0.7±0.0	=	0.7±0.1	=	0.5±0.3	=						
16:0/17:0	+	=	-	=	-	<	0.1±0.0	>	-	<	0.1±0.1	=	-	<	+	= 0.1±0.1	-	=	+	=	0.1±0.1	=	0.1±0.0	=						
20:5/14:0	+	<	0.1±0.0	= 0.1±0.0	= 0.1±0.1	= 0.1±0.0	>	-	<	0.1±0.0	= 0.1±0.0	= 0.1±0.1	= 0.1±0.0	>	-	<	+	=	0.1±0.0	=	+	=	+	=						
14:0/20:5	-	<	0.1±0.0	>	-	<	+	=	+	=	0.1±0.0	>	-	=	-	<	0.1±0.0	0.1±0.0	-	=	-	=	0.1±0.0	=						
16:1/18:3	0.1±0.1	= 0.5±0.4	= 0.3±0.1	= 0.2±0.1	= 0.2±0.1	= 0.2±0.1	=	0.1±0.1	< 0.6±0.2	> 0.2±0.1	>	+	<	0.2±0.1	>	+	=	0.1±0.0	0.2±0.2	0.2±0.1	=	0.1±0.0	=	0.1±0.0	=					
14:0/20:4	-	<	0.7±0.3	>	0.1±0.0	= 0.2±0.2	=	+	=	+	=	+	=	0.2±0.2	=	0.3±0.3	0.3±0.0	0.1±0.0	=	-	=	0.1±0.0	=	0.2±0.1	=					
18:3/16:0+	5.9±1.3	<	8.3±0.5	= 7.8±1.2	= 6.6±1.0	>	3.8±1.1	= 6.1±1.8	=	6.4±1.8	<	10.6±1.4	= 10.7±0.3	>	7.4±1.0	= 8.8±0.8	= 10.2±1.2	>	6.3±0.9	11.5±1.8	5.7±0.3	=	8.0±1.8	=	6.6±0.6	=	12.5±4.2	=		
16:0/18:3	3.4±0.3	<	9.5±0.5	= 11.3±2.6	= 13.7±2.4	>	9.3±0.5	>	7.2±1.6	<	3.7±0.7	<	6.2±0.5	= 6.8±0.8	<	11.7±0.5	>	9.7±0.3	= 11.5±3.4	=	4.1±0.4	12.6±3.5	3.0±0.5	=	6.6±1.2	=	3.9±0.6	=	11.8±1.8	=
18:2/16:0	60.2±3.7	= 58.9±2.6	= 59.9±1.5	= 58.5±2.9	<	67.5±1.4	>	55.8±5.1	=	60.3±2.1	>	56.0±1.9	= 57.9±1.7	= 61.2±3.2	= 61.1±1.0	>	45.4±2.3	<	58.1±1.3	45.2±2.3	63.0±3.6	=	56.9±7.9	=	56.9±0.9	=	41.4±4.5	=		
18:1/16:0	2.5±0.3	= 3.4±2.6	= 4.9±0.3	= 5.0±0.8	>	3.6±0.4	>	1.6±0.4	<	1.2±0.5	<	2.3±0.8	= 2.9±0.7	= 3.2±0.3	>	2.7±0.2	>	0.7±0.6	<	1.8±0.5	1.0±0.5	1.5±0.1	<	1.3±0.0	=	1.5±0.3	=	1.4±0.7	=	
18:0/16:0	0.1±0.0	= 0.2±0.0	>	0.1±0.0	= 0.1±0.0	= 0.1±0.0	<	0.4±0.1	>	0.1±0.0	= 0.1±0.0	= 0.1±0.0	= 0.1±0.0	<	0.4±0.2	>	0.3±0.2	0.3±0.1	0.1±0.0	=	0.4±0.2	=	0.2±0.1	=	0.5±0.3	=				
18:4/18:4	0.4±0.3	= 1.4±1.6	= 0.3±0.1	= 0.4±0.2	>	0.1±0.1	= 0.2±0.1	<	0.6±0.2	= 0.4±0.2	= 0.3±0.0	= 0.4±0.5	= 0.6±0.7	= 0.5±0.3	=	2.5±1.3	0.4±0.2	0.2±0.1	=	0.1±0.0	=	0.6±0.0	=	0.4±0.1	=					
18:3/18:4	0.4±0.2	= 0.9±0.5	= 0.5±0.1	>	0.1±0.1	= 0.2±0.0	= 0.2±0.1	=	0.9±0.1	= 1.4±0.5	= 1.1±0.2	>	0.5±0.2	= 0.5±0.1	= 0.5±0.2	=	1.3±0.6	0.8±0.4	0.4±0.0	=	0.4±0.5	=	1.0±0.3	=	0.6±0.3	=				
18:3/18:3	0.8±0.4	= 1.5±0.7	= 1.0±0.4	= 0.6±0.3	= 0.4±0.2	= 0.4±0.2	=	1.1±0.4	= 1.7±0.6	= 1.8±0.2	>	0.8±0.1	= 0.8±0.1	= 0.6±0.4	=	0.9±0.6	0.6±0.3	0.8±0.2	=	0.4±0.0	=	0.8±0.1	=	0.8±0.1	=					
18:3/18:2	0.3±0.1	= 0.7±0.5	= 0.2±0.1	<	0.3±0.0	= 0.2±0.1	= 0.2±0.2	=	0.2±0.1	<	0.5±0.2	= 0.4±0.1	= 0.4±0.1	= 0.3±0.1	= 0.3±0.2	=	0.2±0.1	0.2±0.1	0.2±0.0	=	0.2±0.0	=	0.2±0.0	=	0.7±0.3	=				
20:5/16:0	0.1±0.1	<	0.5±0.3	>	0.1±0.0	= 0.1±0.0	= 0.2±0.1	= 0.1±0.1	=	0.2±0.1	= 0.3±0.1	= 0.2±0.1	= 0.4±0.3	= 0.1±0.1	= 0.2±0.2	=	0.2±0.0	0.2±0.2	0.1±0.0	=	0.4±0.4	=	0.2±0.1	=	0.2±0.0	=				
18:2/18:2	0.2±0.0	>	+	>	-	<	0.1±0.0	= 0.1±0.1	= 0.2±0.1	>	0.1±0.0	= 0.1±0.0	= 0.1±0.0	= 0.1±0.1	= 0.2±0.2	=	0.1±0.1	0.2±0.1	+	<	0.2±0.0	=	0.1±0.0	=	0.2±0.0	=				
20:4/16:0	-	<	0.2±0.0	>	0.1±0.0	<	0.2±0.1	>	0.1±0.0	=	+	=	+	=	0.1±0.1	<	0.3±0.0	>	+	=	0.1±0.1	=	-	=	0.1±0.0	=				
16:0/20:4	0.2±0.0	= 0.3±0.0	= 0.1±0.1	>	-	<	0.1±0.0	= 0.1±0.1	>	0.1±0.0	= 0.1±0.0	<	0.2±0.1	= 0.2±0.0	= 0.2±0.0	=	+	0.2±0.2	+	=	0.1±0.0	=	-	=	0.1±0.2	=				

18:2/18:1	+ = - = 0.1±0.1 = 0.1±0.0 < 0.6±0.4 = 0.1±0.1 =	+ > - < 0.1±0.1 = + < 0.3±0.2 > + =	+ 0.3±0.1	- = 0.3±0.0 =	0.1±0.1 = 0.1±0.0 =
20:3/16:0	0.3±0.0 = 0.3±0.3 = 0.1±0.0 = 0.1±0.2 = 0.4±0.3 = 0.3±0.1 =	0.4±0.3 = 0.4±0.2 = 0.5±0.1 = 0.5±0.2 = 0.8±0.8 = 0.4±0.1 =	0.3±0.2 0.4±0.1	0.2±0.2 = 0.3±0.0 =	0.2±0.1 = 0.3±0.1 =
18:0/18:3	+ < 0.6±0.4 = 0.1±0.0 = 0.1±0.0 = + = + =	- < 0.1±0.0 > - = 0.2±0.2 = 0.1±0.2 = - =	0.1±0.1 -	+ = - =	0.1±0.0 = - =
16:0/20:0	0.1±0.1 = 0.1±0.0 = + = 0.1±0.0 = 0.1±0.0 < 0.2±0.1 >	0.2±0.0 > + = + = + = + < 0.6±0.1 >	0.4±0.1 0.4±0.2	0.1±0.0 = 0.5±0.1 =	0.2±0.1 = 0.5±0.3 =
20:5/18:4	0.3±0.2 < 1.8±1.2 = 0.9±0.1 = 0.7±0.4 = 0.5±0.2 = 0.3±0.2 =	1.1±0.2 < 2.1±0.5 = 1.8±0.3 > 1.2±0.3 > 0.7±0.3 > 0.3±0.1 <	1.3±0.3 0.6±0.3	0.6±0.1 = 0.2±0.0 =	0.7±0.1 = 0.9±0.1 =
20:5/18:3	0.2±0.2 = 0.3±0.2 = 0.1±0.1 = 0.2±0.1 = 0.1±0.0 < 0.2±0.1 =	0.1±0.1 = 0.4±0.2 = 0.4±0.0 = 0.2±0.2 = 0.1±0.1 = 0.1±0.1 =	0.1±0.1 0.2±0.0	0.1±0.0 = 0.1±0.0 =	0.1±0.0 = 0.1±0.0 =
20:4/18:4	0.2±0.2 = 0.3±0.2 = 0.1±0.1 = 0.1±0.0 = 0.1±0.1 = 0.2±0.1 =	0.1±0.1 = 0.4±0.2 = 0.4±0.1 > 0.1±0.1 = 0.2±0.0 = 0.1±0.1 =	0.1±0.1 0.2±0.0	0.1±0.0 = 0.1±0.0 =	0.1±0.0 = 0.1±0.0 =
20:4/18:3	- = - = - < 0.1±0.0 > - = - <	- = - = - < + > - < 0.1±0.0 =	0.3±0.0 +	- = - =	0.1±0.0 = - =
20:3/18:4	- < 0.2±0.2 = + > - < + > - =	+ = + = + = + = 0.1±0.0 = 0.1±0.0 =	+ 0.1±0.0	+ = - =	+ = 0.1±0.0 =
20:4/18:3	0.1±0.1 = - = - < 0.1±0.1 = 0.1±0.0 > + <	0.1±0.0 = - = 0.1±0.1 > - < 0.1±0.0 = + >	+ -	- = + =	+ = + =
20:5/20:5	- = - = - < + > - = - <	- = - = - < + > - = - <	- -	- = - =	- = - =
20:4/20:4	- = - = - < + > - = - <	- = - = - < + > - = - <	+ -	+ = - =	- = - =
SFA/SFA	10.8±1.1 > 1.7±0.3 = 1.7±0.0 = 1.5±0.5 = 2.0±0.1 < 12.7±1.7 >	9.1±1.7 > 2.8±0.3 = 2.5±0.3 = 2.0±0.4 = 2.4±0.2 < 14.2±4.0 >	11.9±0.614.0±2.0	10.3±0.8 = 13.0±1.3 =	13.5±0.4 > 13.7±1.1 =
SFA/MUFA	2.9±0.2 > 1.7±0.6 = 2.6±0.8 = 3.1±0.9 = 1.9±0.4 < 3.2±0.9 =	3.6±0.7 = 3.4±0.8 = 2.7±0.6 < 3.8±0.1 > 2.7±0.6 = 3.4±0.8 =	3.7±0.2 3.2±1.0	3.5±0.3 = 3.0±0.7 =	4.6±0.2 = 3.2±0.7 =
MUFA/SFA	- = - = - = - = - = - =	- = - = - = - = - = - =	- -	- = - =	- = - =
SFA/PUFA	13.7±2.2 = 12.3±0.6 > 11.6±0.1 = 11.6±1.5 = 9.9±1.2 < 13.7±1.2 =	13.5±2.3 = 15.4±1.3 = 14.0±1.3 > 9.6±1.5 = 11.0±0.7 < 15.8±1.6 >	10.4±0.613.0±1.2	12.7±1.3 = 13.3±3.8 =	12.0±0.2 = 18.0±1.2 =
PUFA/SFA	6.8±0.5 < 14.4±0.7 = 15.4±2.1 = 17.4±2.0 > 11.8±0.6 = 10.7±2.6 <	7.5±0.4 < 12.4±0.7 = 13.0±1.0 < 16.3±0.6 = 15.1±1.2 = 17.4±4.1 =	7.6±0.7 19.1±4.4	6.2±0.8 = 11.3±1.7 =	7.6±0.6 = 18.5±4.2 =
MUFA/MUFA	+ = + = + = + = + = + = + =	+ = + = + = + = + = + = + =	+ +	+ = + =	+ = + =
MUFA/PUFA	0.1±0.1 = 0.5±0.4 = 0.3±0.1 = 0.1±0.1 = 0.1±0.1 = 0.2±0.1 =	0.1±0.1 < 0.6±0.2 > 0.2±0.1 > + < 0.2±0.1 > + =	+ 0.1±0.1	0.2±0.1 = 0.1±0.1 =	0.1±0.1 = 0.1±0.1 =
PUFA/ MUFA	+ = 0.1±0.1 = 0.1±0.1 = + = 0.4±0.4 = 0.1±0.1 =	+ = + < 0.1±0.1 > + < 0.3±0.2 > + =	+ 0.2±0.2	+ = 0.1±0.2 =	0.1±0.1 = + =
PUFA/PUFA	2.6±0.3 < 6.7±1.9 > 3.3±0.3 > 2.5±0.6 > 1.7±0.3 = 1.8±0.6 =	4.3±0.6 < 7.1±1.8 = 6.3±0.5 > 3.6±0.5 = 3.2±1.0 = 2.7±0.8 =	6.0±1.5 3.4±1.2	2.5±0.3 = 1.0±0.4 =	3.8±0.2 = 3.8±0.3 =

PG	The lower part of the blades of infected <i>U. pinmatifida</i> samples							The upper intact part of the blades of infected <i>U. pinmatifida</i> samples							The upper part of the blades of infected <i>U. pinmatifida</i> samples with endophyte		The lower part of the blades of uninfected <i>U. pinmatifida</i> samples				The upper part of the blades of uninfected <i>U. pinmatifida</i> samples			
	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Jun.	Nov.	S	Jun.	S	Nov.	S	Jun.	S
14:0/16:3	+	=	+	>	+	>	-	<	+	>	-	=	-	<	+	+	-	=	0.1±0.0	=	+	=	-	=
14:0/16:2	-	<	+	>	-	<	+	=	+	>	-	<	+	>	+	+	-	=	-	=	0.1±0.0	>	+	=
14:0/16:2	+	>	-	<	+	=	+	>	-	<	+	=	-	<	+	+	+	=	-	=	+	=	-	=
14:0/16:1	0.1±0.0	>	+	=	+	=	+	=	+	=	+	=	+	=	0.1±0.0	0.2±0.1	+	=	-	=	0.4±0.1	=	+	=
14:0/16:1	-	=	-	=	+	=	+	=	+	<	+	=	+	<	0.1±0.0	-	+	=	-	=	+	=	+	=
15:0/15:0	-	=	-	=	-	<	+	=	+	>	-	<	-	=	+	0.1±0.0	-	=	-	=	+	=	-	=
14:0/16:0	0.1±0.0	=	+	=	+	=	+	=	+	=	0.1±0.1	=	+	<	0.1±0.1	>	0.1±0.1	0.2±0.1	0.1±0.0	=	+	=	0.1±0.0	=
14:0/16:0	+	=	+	>	-	<	+	=	+	=	+	=	+	>	+	+	+	=	0.1±0.0	=	+	=	-	=
16:1/15:0	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	-	=	+	=	+	=
16:1/16:4	-	=	-	<	+	>	-	<	+	>	-	=	-	<	+	+	+	=	-	=	+	=	-	=
14:1/18:3	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=	0.1±0.0	>	+	<	0.1±0.1	=	0.1±0.0	0.1±0.0	0.1±0.0	=	-	=	0.2±0.0	=	+	=
16:1/16:2	-	<	+	=	+	=	+	=	+	=	+	=	+	<	0.1±0.0	>	+	0.1±0.0	+	=	+	=	+	=
18:3/14:0	0.2±0.0	>	0.1±0.0	=	0.1±0.0	=	+	=	0.1±0.0	<	0.2±0.1	>	0.2±0.1	>	0.1±0.0	=	0.1±0.0	0.2±0.0	0.2±0.0	=	0.2±0.1	=	0.2±0.1	=
14:0/18:3	+	=	+	<	0.1±0.0	=	+	<	0.1±0.0	=	0.1±0.0	=	+	=	+	+	+	=	+	=	+	=	0.1±0.0	=

16:1/16:1	+	=	+	=	+	=	+	>	+	<	+	=	+	<	0.1±0.0	>	+	<	0.1±0.0	=	0.1±0.0	=	+	=	+	0.1±0.0	+	=	-	=	0.1±0.0	>	0.1±0.0	=
14:0/18:2	0.2±0.1	>	0.1±0.0	<	0.2±0.1	<	0.3±0.0	<	0.4±0.0	>	0.2±0.1	<	0.2±0.1	=	0.2±0.0	=	0.2±0.1	=	0.3±0.1	=	0.4±0.2	=	0.2±0.1	0.5±0.1	0.3±0.0	=	0.2±0.1	=	0.4±0.1	=	0.2±0.1	=		
16:0/16:2	+	=	+	=	+	=	+	>	-	<	+	<	-	<	+	=	+	>	+	<	+	<	0.1±0.0	>	+	+	+	=	-	=	+	=	+	=
14:0/18:1+																																		
16:1/16:0+	0.6±0.1	>	0.3±0.1	<	0.5±0.1	=	0.6±0.3	>	0.1±0.1	<	0.5±0.1	=	0.8±0.3	=	0.6±0.1	=	0.5±0.1	>	0.2±0.2	<	0.9±0.2	>	0.6±0.0	>	0.9±0.2	0.9±0.1	0.8±0.1	=	0.5±0.1	=	2.0±0.5	=	0.6±0.1	=
16:0/16:1																																		
16:0/16:0	+	=	+	=	+	=	+	=	+	<	0.1±0.0	>	+	>	+	=	+	=	+	=	+	<	0.1±0.0	>	+	0.1±0.0	+	=	+	=	+	=	+	=
15:0/18:4	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	+	=	0.2±0.0	=	0.2±0.0	=	0.2±0.0	>	0.1±0.0	=	0.1±0.0	=	0.1±0.2	=	0.1±0.1	0.1±0.1	0.1±0.0	=	-	=	0.1±0.0	=	0.1±0.1	=
15:0/18:3	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	+	=	+	<	0.1±0.1	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	+	=	+	<	0.2±0.1	>	0.1±0.0	0.2±0.1	0.1±0.0	=	0.2±0.0	=	0.1±0.0	=	0.4±0.1	=
17:3/16:0	+	>	-	=	-	=	-	=	-	<	+	>	+	>	-	=	+	>	-	=	-	<	+	>	+	+	-	=	-	=	-	=	-	=
15:0/18:2	+	=	+	=	+	=	+	=	+	=	0.1±0.1	=	0.1±0.0	=	+	=	0.1±0.0	=	+	=	0.1±0.0	=	0.1±0.2	=	0.1±0.0	0.1±0.1	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=
17:2/16:0	-	=	-	<	+	>	-	<	+	=	+	>	-	=	-	=	+	>	-	<	+	>	-	=	-	+	-	=	+	=	-	=	-	=
15:0/18:1	+	=	-	=	-	<	+	=	+	>	-	<	+	>	-	=	-	<	+	<	+	<	0.2±0.0	>	+	0.1±0.0	+	=	+	=	0.1±0.0	=	0.1±0.0	=
15:0/18:1	0.1±0.1	>	+	=	+	=	+	=	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	+	=	+	=	+	<	0.1±0.1	=	0.1±0.1	0.2±0.2	0.1±0.1	=	-	=	0.1±0.0	=	0.1±0.0	=
17:1/16:0	-	=	-	<	+	=	+	=	+	<	0.1±0.0	>	+	>	-	<	+	=	+	=	+	=	+	=	+	0.1±0.0	-	=	+	=	+	=	-	=
15:0/18:0	+	=	+	>	+	<	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	>	-	+	+	=	+	=	+	=	+	=
18:3/16:2	+	=	+	=	+	>	-	<	+	=	+	>	0.1±0.1	=	+	=	+	>	+	=	+	<	+	>	+	+	+	=	-	=	-	=	+	=
14:0/20:5	0.1±0.0	=	0.1±0.1	=	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	+	<	0.2±0.1	=	0.3±0.0	=	0.3±0.1	>	0.1±0.0	=	0.1±0.0	>	0.1±0.0	<	0.2±0.1	0.2±0.2	0.1±0.0	=	+	=	0.3±0.0	=	0.1±0.0	=
18:3/16:1	0.4±0.0	=	0.4±0.1	=	0.4±0.1	=	0.3±0.1	=	0.3±0.0	=	0.5±0.4	=	0.3±0.0	=	0.3±0.1	=	0.3±0.1	>	0.2±0.0	=	0.2±0.1	=	0.3±0.2	=	0.3±0.1	0.2±0.1	0.4±0.0	=	0.4±0.1	=	0.3±0.0	<	0.3±0.0	=
18:3/16:1	23.8±3.2	<	28.8±2.7	=	29.1±3.9	=	33.0±5.1	>	23.9±1.1	>	14.6±6.8	<	38.3±1.1	>	33.9±1.6	=	35.8±3.6	<	46.6±1.1	>	40.1±3.5	=	28.6±10.9	<	34.0±3.2	26.6±7.5	24.0±0.8	=	9.6±5.5	=	37.3±2.6	=	30.6±1.5	=
18:3/16:0	11.4±1.5	>	9.0±0.5	<	12.0±1.6	>	7.8±2.3	=	9.7±0.9	<	26.3±4.1	>	7.2±0.1	>	5.9±0.6	<	7.1±0.9	>	3.4±0.7	<	5.6±0.4	<	15.2±6.7	>	6.9±0.4	12.8±5.5	12.1±0.6	=	31.8±3.9	=	6.9±0.3	=	18.6±3.6	=
16:0/18:3	0.3±0.1	=	0.5±0.1	=	0.5±0.2	=	0.8±0.4	=	0.8±0.1	>	0.4±0.1	=	-	<	0.1±0.0	=	0.2±0.0	=	0.2±0.1	=	0.2±0.0	=	0.2±0.0	=	0.3±0.0	0.1±0.0	0.4±0.3	=	0.3±0.3	=	0.1±0.1	=	0.2±0.0	=
18:2/16:1	0.3±0.1	>	0.1±0.0	=	0.2±0.2	<	0.5±0.2	>	0.3±0.0	<	0.9±0.4	=	0.4±0.1	=	0.3±0.1	=	0.4±0.1	<	1.1±0.4	>	0.6±0.2	=	0.9±0.6	=	0.4±0.1	0.9±0.4	0.1±0.0	=	0.7±0.6	=	0.5±0.0	=	0.7±0.1	=
18:1/16:1	0.2±0.0	>	0.1±0.0	>	+	=	0.1±0.1	=	0.1±0.0	=	0.1±0.1	=	0.2±0.1	=	0.2±0.1	=	0.1±0.0	<	0.4±0.3	=	0.5±0.1	>	0.3±0.0	=	0.3±0.2	0.8±0.6	0.2±0.0	=	0.1±0.0	=	0.7±0.2	=	0.2±0.1	=
16:0/18:2	10.5±1.0	<	12.4±0.8	<	16.0±2.0	<	23.5±1.1	=	24.1±1.2	>	13.9±1.8	<	9.0±0.5	<	13.4±1.4	=	14.2±1.1	<	18.1±1.2	=	18.4±1.0	>	13.3±0.8	<	9.3±0.1	10.3±0.4	11.1±0.5	=	15.1±2.6	=	10.3±1.0	=	10.8±1.0	=
16:0/18:2	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.2±0.0	>	0.1±0.0	=	0.2±0.0	<	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	0.1±0.0	0.1±0.0	=	0.3±0.0	>	0.1±0.1	=	+	=
18:1/16:1	+	>	+	=	+	=	+	=	+	>	+	<	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	+	=	0.1±0.0	=
16:0/18:1	13.7±2.5	>	6.6±0.7	>	5.3±0.5	=	6.8±1.5	<	9.4±0.4	<	15.1±4.5	>	14.4±0.9	>	8.9±0.5	=	7.9±1.1	=	8.3±0.2	<	9.2±0.5	=	10.5±2.3	=	15.4±1.5	9.8±1.7	13.8±0.3	=	12.8±0.4	=	14.7±0.5	=	9.2±0.2	=
16:0/18:1	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	0.1±0.1	=	+	+	+	=	+	=	+	=	0.1±0.0	=
16:0/18:0	+	>	-	=	-	=	-	<	+	<	+	>	+	>	-	<	+	>	-	<	+	<	+	>	-	+	-	=	-	=	-	=	+	=
17:1/18:3	+	>	-	=	-	=	-	=	-	<	+	>	+	>	-	=	-	=	-	=	-	=	-	=	-	+	+	=	-	=	+	=	+	=
18:2/17:1	+	=	+	=	+	>	-	=	-	=	-	=	-	<	+	>	+	=	+	=	+	>	-	<	-	-	+	=	+	=	+	=	0.1±0.0	=
17:0/18:3	0.1±0.0	=	0.1±0.0	=	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.0	>	+	=	+	<	0.1±0.1	>	0.1±0.0	0.1±0.0	0.1±0.0	=	+	=	0.1±0.0	=	0.2±0.0	=
19:2/16:0	+	>	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	0.1±0.1	+	+	=	+	=	+	=	-	=
17:0/18:2	0.1±0.1	=	0.1±0.1	=	0.1±0.0	=	0.2±0.0	=	0.2±0.1	=	0.2±0.1	=	0.2±0.0	=	0.2±0.0	=	0.2±0.1	>	0.1±0.0	=	0.2±0.0	<	0.3±0.1	>	0.2±0.0	0.1±0.1	0.2±0.1	=	0.2±0.0	=	0.3±0.0	>	0.4±0.2	=
18:1/17:0	-	=	-	=	-	=	-	=	-	=	-	=	+	>	-	=	-	=	-	=	-	<	+	>	+	-	+	=	-	=	-	=	-	=
17:0/18:1	0.2±0.0	>	0.1±0.0	=	+	=	+	=	0.1±0.0	=	0.2±0.0	>	0.2±0.0	>	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.0	<	0.2±0.1	>	0.3±0.0	0.2±0.1	0.2±0.0	=	0.1±0.0	=	0.2±0.0	=	0.2±0.0	=
17:0/18:0	+	=	+	=	+	=	+	=	+	=	+	=	+	>	+	=	+	=	+	=	+	=	+	=	+	+	+	=	-	=	+	<	-	=
18:5/18:5	+	=	+	=	+	>	-	<	+	=	+	>	+	=	+	=	+	>	-	<	+	>	-	=	0.1±0.1	+	+	=	-	=	+	=	+	=
16:4/20:5	+	=	+	=	+	=	+	=	+	=	0.1±0.0	=	+	=	+	>	-	<	+	=	+	>	-	<	+	-	+	=	+	=	-	=	+	=
18:4/18:4	+	<	0.3±0.1	=	0.2±0.0	=	0.1±0.1	=	0.1±0.0	>	-	<	0.2±0.1	=	0.1±0.0	=	0.1±0.0	>	+	=	0.1±0.0	<	0.2±0.0	>	1.2±0.3	0.8±0.3	+	=	+	=	0.5±0.0	>	0.1±0.0	=
18:3/18:4	0.9±0.4	<	1.7±0.2	=	1.9±0.5	>	0.5±0.3	<	0.9±0.2	>	0.3±0.2	=	0.9±0.0	=	1.0±0.2	=	0.7±0.2	>	0.2±0.1	<	0.7±0.2	<	1.3±0.2	>	4.9±0.6	8.5±0.8	0.9±0.3	=	0.5±0.2	=	1.5±0.3	=	1.5±1.3	=
18:4/18:3	0.7±0.2	<	3.9±0.5	>	2.6±0.1	>	1.9±0.5	=	1.7±0.2	>	+	<	0.9±0.2	<	2.4±0.3	=	2.5±0.1	>	0.9±0.1	=	1.2±0.4	>	0.2±0.0	<	1.1±0.1	0.6±0.4	0.8±0.0	=	0.1±0.1	=	0.8±0.1	=	0.2±0.1	=

18:3/18:3	20.2±4.5 = 23.8±2.2 > 19.2±0.6 > 10.1±4.2 = 14.8±0.8 = 11.2±5.0 =	10.2±0.5 < 15.8±1.9 > 12.5±0.9 > 3.5±0.2 < 6.9±1.5 = 10.2±6.2 =	9.7±0.7 11.9±3.7	19.8±2.9 =	12.8±1.0 =	7.2±0.5 <	10.6±0.7 =
18:3/18:3	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.1 = 0.1±0.0 = 0.1±0.1 =	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.2±0.0 = 0.2±0.1 =	0.1±0.0 0.1±0.1	+	=	0.1±0.0 =	0.1±0.0 =
18:3/18:2	2.0±0.3 > 1.1±0.2 = 1.1±0.3 = 1.2±0.4 = 1.4±0.3 < 3.7±1.3 >	1.6±0.3 = 1.3±0.2 = 1.4±0.1 = 1.5±0.4 = 1.5±0.5 = 4.4±3.2 =	1.8±0.1 3.2±0.8	1.5±0.0 =	4.0±0.5 =	1.4±0.1 =	4.3±1.4 =
18:2/18:3	0.1±0.0 = + = + = + = + = 0.1±0.0 =	+ = 0.1±0.0 > + = + = + = + =	0.1±0.0 0.1±0.1	+	=	-	0.1±0.0 =
18:1/18:4	+ = + > - < + = + = + =	+ = + = + = + = + = 0.1±0.0 =	+	+	+	=	+
20:5/16:0	+ < + > - = + = + = + =	0.1±0.0 = + = + = + = + = 0.1±0.0 =	0.1±0.1 0.1±0.1	+	=	-	0.3±0.0 =
16:0/20:5	0.1±0.0 = 0.1±0.1 = 0.1±0.0 = 0.2±0.1 = 0.2±0.0 > 0.1±0.0 <	0.1±0.0 < 0.2±0.0 = 0.2±0.0 = 0.3±0.1 = 0.4±0.1 > 0.2±0.1 =	0.3±0.1 0.5±0.1	0.1±0.0 =	0.1±0.0 =	0.6±0.1 =	0.2±0.0 =
18:2/18:2	0.7±0.1 > 0.4±0.1 = 0.4±0.1 < 0.7±0.2 = 0.6±0.1 < 2.1±0.3 >	0.4±0.1 > 0.3±0.1 < 0.4±0.0 < 0.8±0.2 > 0.6±0.1 = 1.4±1.0 =	0.5±0.2 1.1±0.1	0.4±0.1 <	2.2±0.4 =	0.3±0.0 =	1.2±0.3 =
18:1/18:3+	0.2±0.1 = 0.3±0.1 > 0.2±0.1 = 0.1±0.1 = 0.1±0.0 < 0.3±0.1 >	0.3±0.0 = 0.3±0.1 = 0.2±0.0 > 0.2±0.0 = 0.1±0.0 < 0.2±0.1 =	0.2±0.1 0.2±0.1	0.3±0.0 =	0.3±0.1 =	0.3±0.0 =	0.6±0.6 =
18:3/18:1	0.1±0.0 > + = 0.1±0.0 < 0.1±0.0 = 0.1±0.0 = 0.1±0.0 <	0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.2±0.0 < 0.3±0.1 >	0.3±0.0 0.4±0.4	0.1±0.0 =	0.1±0.0 =	0.4±0.3 =	0.3±0.2 =
20:4/16:0	0.1±0.1 = - < + < + > - < + =	- = - = + < + > - < 0.1±0.1 =	0.1±0.2 +	+	=	+	0.1±0.0 =
16:0/20:4	0.2±0.1 = 0.1±0.0 < 0.2±0.0 = 0.2±0.1 < 0.4±0.1 = 0.5±0.1 >	0.2±0.0 > 0.2±0.0 = 0.1±0.0 < 0.3±0.1 = 0.4±0.1 < 0.6±0.2 >	0.3±0.1 0.5±0.1	0.2±0.1 =	0.5±0.2 =	0.4±0.0 >	0.4±0.0 =
18:1/18:2	0.6±0.0 = 0.6±0.1 > 0.5±0.0 = 0.5±0.1 = 0.3±0.1 < 0.7±0.3 =	0.4±0.1 = 0.6±0.1 = 0.5±0.1 = 0.6±0.1 > 0.4±0.1 = 0.4±0.1 =	0.4±0.0 0.7±0.1	0.5±0.1 =	1.1±0.3 =	0.3±0.0 =	0.5±0.0 =
18:0/18:3	0.1±0.1 = + = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 =	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 = 0.2±0.1 =	0.2±0.1 0.2±0.2	0.1±0.0 =	0.3±0.0 =	0.2±0.1 =	0.1±0.0 =
18:0/18:3	1.1±0.1 > 0.8±0.1 > 0.5±0.1 > 0.3±0.0 < 0.6±0.1 > 0.3±0.1 =	0.9±0.2 > 0.4±0.0 = 0.4±0.1 > 0.2±0.0 = 0.2±0.1 < 0.6±0.1 >	0.8±0.2 0.3±0.1	1.0±0.2 =	0.2±0.0 =	0.8±0.1 =	0.5±0.0 =
20:2/16:1	0.1±0.1 = 0.1±0.0 = + = + = 0.1±0.0 = + =	+ = + > + = + = + = + =	+	-	0.1±0.0 =	0.1±0.0 =	+
18:1/18:1	0.4±0.1 = 0.3±0.1 = 0.2±0.1 = 0.2±0.0 = 0.1±0.1 = 0.4±0.4 =	0.2±0.1 = 0.2±0.0 > 0.2±0.0 < 0.2±0.0 > 0.1±0.0 = 0.1±0.1 <	0.2±0.1 0.2±0.0	0.4±0.1 =	0.3±0.1 =	0.3±0.0 =	0.1±0.1 =
18:1/18:1	0.1±0.0 > - = - = - < 0.1±0.0 > + >	+ > - < + > - < 0.1±0.0 = 0.1±0.0 >	0.1±0.1 0.1±0.0	-	=	0.1±0.0 =	+
18:0/18:2	2.4±0.3 > 1.5±0.1 > 0.9±0.0 < 1.7±0.3 < 2.5±0.6 = 1.9±0.8 =	2.1±0.0 > 1.7±0.2 = 1.4±0.3 = 1.6±0.3 = 1.7±0.5 = 1.8±0.5 =	1.7±0.2 1.4±0.5	2.1±0.5 =	1.3±0.5 =	1.6±0.2 =	1.3±0.1 =
18:0/18:1	3.4±0.1 > 0.9±0.2 > 0.4±0.1 = 0.7±0.3 = 1.0±0.2 < 2.2±0.9 >	2.4±0.3 > 1.1±0.1 > 0.8±0.1 = 0.7±0.1 = 0.7±0.1 < 1.4±0.6 >	1.5±0.5 0.9±0.3	2.8±0.1 <	1.8±0.2 =	2.2±0.0 =	1.3±0.1 =
18:0/18:0	+ = 0.1±0.1 = + = + = - = 0.1±0.1 =	+ = + > + = + = + < 0.1±0.1 >	0.2±0.2 0.1±0.1	+	=	0.3±0.3 =	0.1±0.0 =
18:4/19:2	0.1±0.0 = 0.3±0.2 = 0.1±0.0 = 0.1±0.1 = 0.1±0.1 = 0.1±0.0 =	0.1±0.0 = 0.2±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.1 =	0.1±0.1 0.2±0.1	0.1±0.0 =	0.1±0.0 =	0.1±0.0 =	0.2±0.0 =
18:3/19:2	0.1±0.0 > + = + = + = + < 0.1±0.0 =	0.1±0.0 > + = + = + = + < 0.1±0.0 >	+	+	+	=	0.1±0.1 =
19:2/18:3	+ = + > + = + > + < 0.1±0.0 =	+ < + = + = + = + = + =	+	+	+	=	0.1±0.0 =
19:1/18:3	+ > - < + > - < + > - =	+ = - = + < + > - < 0.1±0.0 >	-	-	-	=	+
19:1/18:2	+ > - < + > - = - = - =	+ = - = - = - < + > - =	+	-	-	=	-
19:1/18:1	+ = + = + = + > - < + >	+ = + = + = + > - < + =	0.1±0.0 +	+	=	+	+
18:1/19:0	- = - = - = - = - = - =	- = - = - = - = - = - =	-	-	-	=	-
20:5/18:4	+ = + = + < + = + = - <	+ = + = + = + = + = 0.1±0.1 =	0.1±0.1 0.1±0.1	+	=	0.1±0.0 =	+
18:4/20:5	+ > - = + = + = + = + =	+ > - < + = + > - = - <	+	0.1±0.0	+	=	+
20:5/18:3	+ < 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 > + <	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = + < 0.2±0.1 = 0.1±0.1 =	0.2±0.0 0.3±0.2	+	=	-	0.1±0.0 =
18:3/20:5	- < + = + = + = + = + =	+ = + = + < + > + < 0.1±0.0 =	+	+	+	=	+
20:4/18:3	+ = + = + = + = + = + =	+ = + = + = + = + < 0.1±0.0 >	+	0.1±0.1	+	=	+
18:3/20:4	0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 > 0.1±0.0 <	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.1 > 0.1±0.0 <	0.1±0.1 0.1±0.1	+	=	+	0.1±0.0 =
18:2/20:5	+ = + = + = + > - < + =	- < + > + < + = + > - <	-	+	+	=	-
18:3/20:3	0.1±0.1 = + = + = + = + = + =	0.1±0.0 > 0.1±0.0 = 0.1±0.0 = + = + = 0.1±0.0 =	0.1±0.0 0.1±0.1	+	=	+	0.1±0.1 =
18:2/20:4	+ = + = + = + = + = + =	+ = + = + < 0.1±0.0 = 0.1±0.1 = 0.1±0.0 =	+	0.1±0.1	+	=	+
18:2/20:4	+ = + = + = + = + > + =	+ = + = + < 0.1±0.1 = 0.1±0.1 = 0.1±0.1 =	0.1±0.0 0.1±0.1	+	=	-	0.1±0.0 =
18:1/20:5	+ = + > + = + = + > - =	+ = + > + < + = + > - <	+	0.1±0.0	-	=	-
20:3/18:2	+ = + = + = + = + = + =	+ = + = + = + = + = 0.1±0.1 =	+	+	+	=	0.1±0.0 =
18:1/20:4	+ = + = + = + = + = 0.1±0.1 =	+ = + = + = + = 0.1±0.0 = 0.1±0.1 =	0.2±0.1 0.2±0.1	+	=	0.1±0.0 =	0.1±0.0 =
20:4/18:0	+ = + = + < + < + = + =	+ > + = + < + = + = 0.1±0.0 =	+	0.1±0.1	+	=	0.1±0.0 =

18:0/20:4	- < + > - = - = - = - =	+ = + > - = - < + < + >	- -	- =	- =	+ =	- =
20:5/20:5	- = - = + = - < + > - =	- = - = - = - < + > - =	+ -	- =	- =	- =	+ =
20:4/20:5	+ = 0.1±0.0 = + = + = + = + =	+ = + = + = + = + = + =	0.1±0.0 +	+ =	- =	+ =	+ =
18:3/16:1-OH	+ = + < + = + = + = + =	+ < 0.1±0.0 = 0.1±0.0 = + = + = + =	+ +	+ =	- =	0.1±0.0 >	+ =
18:3/16:0-OH	2.9±0.7 = 3.8±0.8 < 5.6±0.8 = 5.5±1.1 > 3.9±0.3 > 1.3±0.6 <	5.1±0.1 < 7.4±0.6 < 9.2±0.4 > 7.9±0.3 > 6.5±0.2 > 2.0±1.3 <	3.2±0.1 1.3±0.7	3.4±0.4 =	1.0±0.4 =	3.8±0.8 =	1.9±1.0 =
18:2/16:0-OH	0.1±0.0 = + = 0.1±0.1 = 0.2±0.1 > 0.1±0.0 = 0.2±0.0 =	0.1±0.0 > 0.1±0.0 < 0.1±0.0 < 0.3±0.1 = 0.2±0.1 = 0.2±0.1 <	+ 0.1±0.1	+ =	0.1±0.1 =	0.1±0.0 =	0.1±0.1 =
SFA/SFA	0.2±0.0 = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.3±0.1 >	0.1±0.1 > 0.1±0.0 = + = + = 0.1±0.0 < 0.4±0.1 >	0.3±0.2 0.5±0.2	0.1±0.0 =	0.4±0.4 =	0.2±0.1 =	0.2±0.1 =
SFA/MUFA	18.0±2.6 > 7.8±1.0 > 6.2±0.6 = 8.0±1.9 < 10.7±0.5 < 17.9±5.3 >	17.8±0.9 > 10.8±0.7 = 9.3±1.2 = 9.2±0.3 < 10.6±0.4 = 13.0±3.1 >	18.0±2.1 12.0±1.7	17.5±0.3 =	15.0±0.4 =	19.0±0.3 =	11.3±0.5 =
MUFA/SFA	- = - = - = - = - = - = - =	- = - = - = - = - = - = - =	- -	- =	- =	- =	- =
SFA/PUFA	15.5±1.1 = 16.1±0.9 < 19.1±2.2 < 27.9±1.3 = 29.8±1.6 > 18.1±2.7 <	13.7±0.4 < 17.6±1.7 = 18.0±1.5 < 21.6±1.4 = 22.5±1.0 > 18.6±1.2 <	14.0±0.5 15.2±0.7	16.1±1.6 =	18.8±1.6 =	15.9±1.4 =	15.3±0.7 <
PUFA/SFA	14.7±0.9 > 12.9±0.3 < 17.7±0.9 > 13.5±1.1 = 13.8±0.7 < 28.0±3.5 >	12.7±0.2 < 13.5±0.2 < 16.5±1.0 > 11.8±0.9 = 12.4±0.3 = 17.8±5.1 >	10.7±0.5 14.5±4.7	15.9±1.0 =	33.1±3.4 =	11.3±0.2 <	20.9±2.8 =
MUFA/MUFA	0.7±0.1 > 0.4±0.1 = 0.3±0.1 = 0.3±0.0 = 0.2±0.1 = 0.6±0.3 =	0.5±0.1 = 0.5±0.1 > 0.3±0.1 < 0.7±0.3 = 0.7±0.1 = 0.6±0.0 =	0.7±0.0 1.1±0.6	0.6±0.1 =	0.5±0.2 =	1.2±0.2 =	0.5±0.3 =
MUFA/PUFA	0.9±0.1 = 0.9±0.1 > 0.6±0.1 = 0.7±0.2 = 0.5±0.1 = 0.9±0.4 =	0.8±0.2 = 0.9±0.1 = 0.8±0.1 = 0.8±0.1 = 0.6±0.2 = 0.8±0.2 =	0.9±0.2 1.1±0.1	0.8±0.0 =	1.3±0.4 =	0.9±0.0 =	0.9±0.2 =
PUFA/ MUFA	24.6±3.3 < 29.6±2.7 = 29.9±3.7 = 34.0±5.2 > 24.5±1.1 > 16.1±6.9 <	39.2±1.1 > 34.7±1.5 = 36.6±3.5 < 48.0±1.5 > 40.9±3.3 = 29.9±11.2 <	34.9±3.2 27.8±7.8	24.7±0.8 =	10.9±6.3 =	38.3±2.5 =	32.0±2.0 =
PUFA/PUFA	25.3±5.2 = 32.1±3.2 > 26.0±1.1 > 15.3±4.9 = 20.3±1.6 = 17.8±6.3 =	14.8±0.2 < 21.7±1.8 > 18.2±1.2 > 7.8±0.5 < 11.8±2.8 = 18.6±10.6 =	20.2±1.1 27.4±3.7	24.0±3.0 =	19.9±1.8 =	12.5±0.9 =	18.7±0.4 =

PE	The lower part of the blades of infected <i>U. pinnatifida</i> samples							The upper intact part of the blades of infected <i>U. pinnatifida</i> samples							The upper part of the blades of infected <i>U. pinnatifida</i> samples with endophyte	The lower part of the blades of uninfected <i>U. pinnatifida</i> samples		The upper part of the blades of uninfected <i>U. pinnatifida</i> samples																		
	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T		Nov.	Jun.	Nov.	S	Jun.	S	Nov.	S	Jun.	S											
16:1/14:0	-	=	-	<	+	<	+	=	+	>	-	<	+	>	-	<	+	0.3±0.2	>	+	0.4±0.3	-	=	-	=	+	=	0.1±0.1	=							
15:0/15:0	-	=	-	=	-	<	+	>	-	=	-	<	+	>	+	=	+	=	+	+	+	=	+	=	+	=	+	=	+	=						
16:1/16:1	+	=	+	=	+	=	+	=	+	=	0.1±0.1	=	0.1±0.0	=	0.2±0.1	=	0.1±0.1	<	0.3±0.1	>	0.2±0.1	<	0.4±0.1	=	0.3±0.2	0.9±0.7	+	=	0.3±0.0	=	0.2±0.2	=				
14:0/18:2	0.1±0.0	=	+	=	+	=	+	=	+	=	+	=	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=	0.1±0.0	0.1±0.0	0.1±0.0	=	+	=	+	=				
14:0/18:1	0.1±0.0	>	+	<	+	=	+	=	+	=	<	0.1±0.0	=	0.1±0.0	=	+	<	0.1±0.0	>	+	=	0.2±0.2	=	0.2±0.0	0.4±0.3	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.2	=			
16:0/16:1	+	>	-	<	+	>	-	<	+	=	+	>	+	>	-	<	+	=	+	<	+	=	+	>	+	+	-	=	+	=	-	=	-	=		
16:0/16:0	+	>	+	<	+	=	+	=	+	<	0.1±0.0	>	+	>	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	+	=	+	=		
16:3/18:4	+	>	-	<	+	=	+	>	-	=	-	<	+	>	-	<	+	>	+	>	-	<	+	>	+	+	+	=	+	=	+	=	-	=		
16:3/18:3	+	=	+	=	+	=	-	<	+	>	-	=	+	>	-	<	+	<	+	>	+	+	+	+	+	+	+	=	+	=	+	=	+	=		
20:5/14:0	+	=	+	=	+	=	+	>	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	+	=	+	=		
14:0/20:5	1.1±0.2	<	1.4±0.1	=	1.4±0.3	=	1.6±0.5	=	1.9±0.3	>	0.4±0.1	<	1.0±0.2	=	1.0±0.0	>	0.8±0.0	=	0.8±0.2	<	1.0±0.1	>	0.6±0.1	=	1.1±0.1	1.0±0.1	1.6±0.1	>	0.2±0.1	=	1.2±0.0	=	0.6±0.1	=		
14:0/20:4	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	+	=	+	=	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	+	=	+	=	0.1±0.1	+	0.2±0.0	=	+	=	0.1±0.0	=	+	=		
14:0/20:4	3.6±0.7	>	1.1±0.1	=	1.2±0.2	=	1.1±0.3	<	2.0±0.3	<	3.9±0.6	>	1.9±0.2	>	1.2±0.1	>	1.0±0.1	=	0.9±0.1	=	1.0±0.1	<	2.4±0.3	>	1.7±0.5	2.3±0.8	4.1±0.2	=	3.6±0.1	=	1.8±0.0	=	2.6±0.3	=		
18:2/16:1	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	0.2±0.3	=	+	<	+	=	0.1±0.0	0.1±0.0	+	=	+	=	+	=	+	=		
18:2/16:1	-	=	-	=	-	<	+	=	+	=	+	=	+	>	-	<	+	<	0.4±0.2	>	+	<	0.1±0.1	<	0.1±0.0	0.2±0.1	+	=	-	=	0.4±0.0	=	-	=		
18:1/16:2	0.1±0.0	>	+	=	0.1±0.0	=	+	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.2±0.1	=	0.1±0.1	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.2±0.2	0.1±0.0	0.2±0.1	=	-	=	0.2±0.2	=	0.1±0.1	=		
16:0/18:3	0.3±0.0	>	0.2±0.0	=	0.3±0.1	>	0.1±0.0	<	0.2±0.0	=	0.2±0.2	=	0.1±0.1	=	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	+	0.4±0.1	=	0.2±0.0	=	0.1±0.0	=	0.1±0.0	=		
18:1/16:1	+	=	+	=	+	=	+	=	+	=	+	=	+	=	0.2±0.1	=	0.2±0.2	=	0.1±0.1	<	0.4±0.1	=	0.3±0.1	=	0.7±0.4	=	0.7±0.3	1.8±1.5	0.1±0.0	=	+	=	1.0±0.1	>	0.4±0.5	=
16:0/18:2	0.4±0.1	>	0.2±0.1	=	0.2±0.0	=	0.1±0.1	=	0.2±0.1	<	0.5±0.1	>	0.2±0.1	=	0.2±0.0	=	0.2±0.1	=	0.2±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	0.1±0.0	0.3±0.0	=	0.4±0.2	=	0.1±0.1	=	0.3±0.2	=		
16:0/18:1	0.2±0.1	>	+	>	+	=	+	=	+	<	0.3±0.1	>	0.1±0.0	=	+	=	+	=	0.1±0.0	>	+	=	0.1±0.1	=	0.2±0.3	0.2±0.1	0.1±0.0	=	0.2±0.0	=	0.1±0.0	=	0.1±0.0	=		

18:0/16:0	+	>	-	<	+	>	+	=	+	=	+	=	+	=	+	=	-	=	-	=	-	=	-	=	-	=										
18:4/17:2	-	=	-	=	+	=	+	=	+	>	-	<	-	=	-	=	-	<	+	>	-	=	-	<	+	-	+	=	+	=	+	=	-	=		
20:5/15:0	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.0	=	0.1±0.0	<	0.1±0.0	>	0.1±0.0	=	0.1±0.0	=	0.2±0.0	=	0.2±0.0	0.2±0.1	0.1±0.0	=	+	=	0.1±0.0	=	0.1±0.2	=		
20:4/15:0	0.2±0.0	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.2±0.0	>	0.2±0.1	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.5±0.1	>	0.2±0.1	0.6±0.2	0.2±0.0	>	0.3±0.1	=	0.2±0.0	=	0.5±0.2	=				
17:1/18:2	-	=	-	<	+	=	+	>	+	>	-	<	-	=	-	=	-	<	+	=	+	>	-	<	-	+	-	=	-	=	-	=	+	=		
18:3/18:4	0.1±0.0	<	0.2±0.0	>	0.1±0.0	>	+	=	0.1±0.0	=	+	=	+	<	0.1±0.1	=	0.1±0.0	>	+	>	+	=	+	<	0.1±0.0	+	0.1±0.0	=	+	=	+	=	+	=		
18:4/18:3	+	=	0.1±0.0	<	0.2±0.1	=	0.1±0.0	=	0.1±0.0	>	+	<	+	=	+	=	0.1±0.0	>	+	<	0.1±0.0	>	+	=	+	+	0.1±0.0	=	+	=	+	<	+	=		
18:3/18:3	0.1±0.1	<	0.2±0.0	>	0.1±0.1	=	0.1±0.0	=	0.1±0.0	>	+	=	+	<	0.2±0.0	>	0.1±0.0	=	+	=	+	=	+	=	+	+	0.1±0.0	0.2±0.0	=	+	=	+	=	+	=	
16:1/20:5	0.1±0.0	<	0.4±0.1	=	0.5±0.1	=	0.5±0.2	>	0.2±0.0	>	0.1±0.1	<	0.1±0.0	<	0.2±0.0	=	0.3±0.1	=	0.3±0.1	=	0.2±0.1	>	0.1±0.1	<	0.1±0.1	0.2±0.1	0.1±0.0	=	0.1±0.0	=	0.2±0.1	=	0.1±0.0	=		
18:3/18:2	0.1±0.0	<	0.2±0.1	=	0.2±0.1	>	+	<	0.1±0.0	=	+	=	+	=	0.1±0.0	=	0.1±0.0	=	+	=	+	=	+	=	+	+	0.1±0.0	=	0.1±0.0	=	+	=	+	=	+	=
18:2/18:3	+	=	+	=	+	>	+	=	+	=	+	=	0.1±0.0	>	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	+	=	+	=	+	=
16:1/20:4	0.3±0.1	=	0.3±0.0	=	0.3±0.1	=	0.3±0.0	=	0.2±0.1	=	0.2±0.0	<	0.1±0.0	<	0.2±0.0	=	0.2±0.1	=	0.2±0.0	=	0.2±0.0	>	0.1±0.0	<	0.2±0.1	0.2±0.1	0.3±0.0	=	0.1±0.0	=	0.1±0.1	=	0.1±0.0	=		
16:0/20:5	5.3±1.0	<	10.1±0.3	<	12.7±2.2	=	11.9±0.8	=	10.9±0.5	>	2.2±0.8	<	5.5±0.3	<	7.4±0.8	<	8.4±0.2	=	8.4±0.1	<	9.8±0.2	>	3.8±0.4	<	6.4±0.3	6.3±0.5	6.2±0.4	=	1.7±0.2	=	7.5±0.6	=	3.3±1.7	=		
18:2/18:2	+	=	+	=	+	=	0.1±0.0	=	+	=	0.1±0.0	=	+	=	+	>	+	<	+	=	+	=	+	=	+	+	+	=	-	=	+	=	-	=		
18:3/18:1	+	=	-	<	+	=	+	=	+	=	+	=	+	>	-	<	+	=	+	=	+	=	+	=	0.1±0.0	0.1±0.1	+	=	+	=	+	=	+	=		
20:4/16:0	0.6±0.2	=	0.7±0.0	=	0.8±0.3	=	0.6±0.1	=	0.6±0.0	>	0.1±0.1	<	0.3±0.1	=	0.3±0.1	=	0.4±0.1	=	0.4±0.1	>	0.3±0.1	>	0.1±0.0	<	0.5±0.1	0.2±0.1	0.7±0.1	=	0.1±0.1	=	0.2±0.0	=	0.3±0.1	=		
16:0/20:4	11.2±0.6	>	4.3±0.4	<	5.4±0.4	<	6.3±0.6	<	8.0±0.4	<	19.1±1.5	>	9.1±0.3	>	6.0±0.1	=	6.2±0.4	<	8.7±0.9	=	8.3±0.8	<	15.8±3.1	>	7.5±0.5	13.3±1.5	12.7±0.5	=	19.8±1.8	=	9.5±0.2	=	15.2±1.0	=		
18:1/18:2	0.1±0.0	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	0.1±0.0	0.1±0.0	+	=	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=		
16:0/20:3	0.4±0.0	>	0.3±0.1	=	0.4±0.0	=	0.3±0.0	=	0.4±0.0	=	0.3±0.0	>	0.2±0.1	=	0.2±0.1	=	0.2±0.1	=	0.3±0.0	>	0.2±0.0	=	0.2±0.2	=	0.1±0.1	0.2±0.0	0.5±0.1	=	0.4±0.0	>	0.2±0.0	=	0.2±0.1	=		
18:1/18:1	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	0.1±0.1	0.1±0.0	+	=	+	=	0.1±0.0	>	0.1±0.1	=		
18:1/18:1	0.1±0.1	=	+	>	+	<	+	<	0.1±0.0	>	+	=	+	>	+	=	+	<	+	=	0.1±0.0	=	0.1±0.1	=	0.1±0.1	0.1±0.1	+	=	+	=	+	=	+	=		
18:0/18:2	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	+	>	+	=	+	=	0.1±0.0	=	+	=	0.1±0.0	>	+	=	+	=	+	=	0.1±0.1	+	0.1±0.0	=	+	=	+	=	+	=		
16:0/20:1	-	=	-	<	+	=	+	>	-	=	-	<	-	=	-	<	+	>	-	<	+	>	-	=	-	-	+	=	+	=	+	=	-	=		
18:0/18:1	+	>	+	=	+	=	+	<	+	=	+	>	+	=	+	=	+	=	+	=	+	=	+	>	+	+	+	=	-	=	0.1±0.1	=	+	=		
18:0/18:0	0.1±0.0	=	+	=	+	>	+	=	+	<	0.1±0.1	>	+	=	+	=	+	>	+	<	0.1±0.1	>	0.1±0.0	0.1±0.0	+	=	0.2±0.0	=	+	=	0.1±0.0	=				
20:5/18:5	+	<	+	=	+	>	+	=	+	=	+	=	+	<	+	=	0.1±0.0	=	+	=	+	<	+	=	+	+	+	=	0.1±0.0	=	+	=	+	=		
20:5/18:4	0.5±0.1	<	1.1±0.0	>	0.7±0.0	>	0.2±0.1	<	0.4±0.0	>	0.2±0.1	=	0.3±0.0	<	0.8±0.1	=	0.7±0.1	>	0.2±0.0	=	0.2±0.1	=	0.2±0.1	=	0.5±0.1	1.0±0.2	0.8±0.0	=	0.1±0.1	=	0.3±0.0	=	0.2±0.1	=		
18:4/20:5	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	<	+	=	+	=	+	=	+	0.1±0.1	+	=	-	=	+	=	-	=		
20:3/18:5	+	>	+	=	+	=	+	>	-	=	-	<	+	=	+	=	+	=	+	=	+	>	-	<	+	+	-	=	-	=	-	=	-	=		
20:5/18:3	0.5±0.0	<	4.6±0.8	=	3.6±1.0	>	1.9±0.4	=	1.8±0.1	>	0.1±0.1	<	0.5±0.0	<	2.7±0.5	=	2.8±0.8	>	0.9±0.2	<	1.2±0.1	>	0.2±0.2	<	0.7±0.2	0.2±0.1	0.8±0.0	>	0.3±0.0	=	0.5±0.0	=	0.2±0.2	=		
18:3/20:5	1.4±0.3	=	1.4±0.2	=	1.2±0.4	=	1.1±0.8	=	0.8±0.1	=	1.0±0.2	=	0.4±0.2	<	1.1±0.1	=	1.2±0.1	=	0.4±0.0	=	0.4±0.1	=	0.7±0.4	=	0.8±0.4	1.4±0.5	1.5±0.3	=	0.7±0.0	=	0.3±0.1	=	0.6±0.1	=		
20:4/18:4	+	=	+	<	+	>	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	0.1±0.0	+	+	=	+	=	+	=	+	=		
18:4/20:4	+	=	+	<	+	=	+	=	+	=	+	>	-	<	+	=	+	<	+	=	+	=	+	=	0.1±0.0	+	+	=	-	=	+	=	+	=		
20:4/18:3	2.6±0.5	<	8.4±1.1	=	7.8±2.0	=	6.4±1.4	=	5.4±0.3	>	1.5±0.7	<	2.0±0.4	<	6.5±0.5	>	5.6±0.5	>	4.5±0.6	=	4.4±0.3	>	1.1±0.4	<	2.0±0.3	1.4±0.1	3.2±0.2	=	1.2±0.0	=	1.7±0.1	=	1.1±0.0	=		
18:3/20:4	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	+	=	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	+	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=		
20:4/18:3	+	=	+	=	+	=	+	>	+	>	-	<	+	=	+	=	+	=	+	=	+	=	+	=	+	+	+	=	+	=	+	=	+	=		
18:3/20:3	+	<	+	=	+	<	0.2±0.1	=	0.3±0.0	>	+	<	+	<	+	=	+	<	0.1±0.1	=	0.1±0.0	>	+	<	0.1±0.0	+	+	=	+	=	+	=	+	=		
20:4/18:2	+	>	-	=	-	=	0.2±0.2	=	-	=	-	=	+	=	-	=	-	<	0.1±0.1	>	+	>	-	<	-	+	-	=	-	=	-	=	+	=		
18:2/20:4	1.7±0.3	=	1.8±0.3	=	2.0±0.4	=	2.4±0.5	=	2.4±0.2	=	2.5±0.4	=	1.5±0.0	<	2.9±0.7	=	2.3±0.2	<	2.8±0.4	=	2.8±0.2	>	1.8±0.3	<	1.3±0.2	1.4±0.2	1.8±0.4	=	2.5±0.3	=	1.3±0.1	=	1.9±0.3	=		
18:1/20:5	1.4±0.2	<	4.0±0.6	>	2.8±0.4	=	2.3±0.4	=	2.1±0.1	>	0.3±0.2	<	0.8±0.0	<	1.4±0.4	=	1.4±0.1	>	1.0±0.0	=	0.8±0.2	>	0.2±0.0	<	0.8±0.0	0.4±0.1	1.4±0.1	=	0.3±0.2	=	0.7±0.0	=	0.2±0.0	=		
18:1/20:5	+	<	+	=	+	=	+	=	+	=	+	=	+	<	+	=	+	=	+	=	+	=	+	=	0.1±0.0	+	+	=	+	=	+	=	+	=		
16:1/22:5	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	>	+	=	+	=	+	=	+	+	+	=	-	=	+	=	+	=		
16:0/22:6	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	-	+	+	=	+	=	+	=	+	=		

18:2/20:3	0.1±0.0 < 0.1±0.0 = 0.1±0.0 = 0.1±0.1 = 0.1±0.0 > + <	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 > 0.1±0.0 > + <	0.1±0.0 0.1±0.0	0.1±0.0 =	+	=	+	=	+	=
18:1/20:4	1.7±0.4 > 1.0±0.2 > 0.8±0.1 = 0.9±0.3 = 1.0±0.1 < 1.8±0.5 >	0.8±0.1 = 0.8±0.3 = 0.6±0.0 = 0.6±0.1 > 0.5±0.1 = 0.4±0.1 =	0.5±0.1 0.4±0.1	1.5±0.0 =	1.6±0.4 =	0.6±0.0 <	0.4±0.1 =			
18:0/20:5	1.3±0.4 = 1.6±0.2 > 1.0±0.1 < 1.3±0.1 < 1.7±0.3 > 0.6±0.2 <	1.5±0.1 = 1.3±0.3 = 1.3±0.0 = 1.1±0.4 = 1.2±0.4 = 1.1±0.7 =	1.7±0.1 1.5±0.7	1.2±0.2 =	0.4±0.3 =	1.4±0.1 =	1.0±0.3 =			
18:1/20:3	+ > + = + < + = + = - <	+ = + < + = + = + = - <	+ +	+ =	- =	- =	- =			
20:4/18:0	0.1±0.1 = 0.1±0.0 > + = + = + = 0.1±0.0 =	+ = + = + = + = + = + < + =	+ +	0.1±0.0 =	- =	+	+			
18:0/20:4	2.2±0.2 > 0.7±0.2 = 0.4±0.1 < 0.7±0.1 < 1.1±0.1 < 4.2±0.8 >	2.6±0.2 > 1.1±0.1 = 1.0±0.1 = 1.0±0.2 = 1.1±0.2 < 4.2±1.2 >	1.9±0.1 2.9±0.4	2.2±0.1 =	3.9±0.5 =	2.0±0.3 =	4.7±1.2 =			
20:5/20:5	3.4±0.6 < 10.4±1.0 = 9.7±0.5 > 6.5±0.3 = 6.2±0.2 > 0.4±0.3 <	3.9±0.5 < 8.7±0.6 = 9.8±1.3 > 4.6±0.9 = 4.8±0.3 > 1.1±0.6 <	6.8±0.7 4.9±0.7	3.6±0.1 =	0.1±0.0 =	5.1±0.2 >	0.8±0.3 =			
22:5/18:4	0.4±0.0 < 1.2±0.2 > 0.8±0.2 = 0.7±0.2 = 0.7±0.1 > + <	0.4±0.1 < 0.7±0.1 < 0.9±0.1 > 0.5±0.3 = 0.6±0.1 > 0.1±0.1 <	0.8±0.1 0.5±0.1	0.4±0.0 =	+	0.8±0.0 >	0.2±0.1 =			
20:4/20:5	24.0±1.5 < 27.0±1.4 = 28.4±4.5 = 29.9±2.6 > 25.5±0.7 > 9.1±3.2 <	28.2±0.9=29.5±1.5=30.9±2.9 = 29.8±1.1 < 32.0±1.3 > 13.0±3.3 <	30.3±0.419.7±1.4	22.3±3.3 =	6.6±1.6 =	28.8±1.0 =	12.7±3.6 =			
18:3/22:5	+ < + = + = + = + = + =	+ = + = + = + = + = + < + =	+ 0.1±0.0	+ =	+	+	+			
20:3/20:5+	2.1±0.3 < 2.9±0.2 > 2.5±0.1 = 2.6±0.5 = 2.6±0.1 > 0.4±0.1 <	1.5±0.2 < 2.5±0.1 = 2.8±0.4 = 2.5±0.4 > 1.9±0.3 > 0.7±0.1 <	2.0±0.3 1.0±0.1	2.8±0.6 =	0.4±0.1 =	1.9±0.1 =	0.8±0.3 =			
20:5/20:3										
20:4/20:4	25.1±0.8 > 8.2±1.3 = 9.9±2.2 = 13.1±1.8 < 15.5±0.7 < 41.2±4.9 >	29.5±0.2>15.1±2.6=13.9±0.8 < 21.4±2.0 > 18.5±0.9 < 38.4±3.8 >	22.5±0.725.6±2.8	21.5±0.6 <	46.1±2.5 =	24.6±1.5 =	38.9±5.4 =			
20:4/20:3	1.0±0.1 > 0.3±0.3 = 0.1±0.2 < 0.7±0.4 = 0.7±0.3 > 0.1±0.0 <	0.1±0.1 = 0.1±0.2 < 0.8±0.3 = 0.8±0.4 = 0.7±0.1 > 0.3±0.2 =	0.1±0.1 0.1±0.1	0.6±0.9 =	0.8±0.0 >	+	0.1±0.0 =			
20:3/20:4	0.4±0.2 = 0.4±0.1 = 0.4±0.0 = 0.3±0.4 = 0.6±0.1 = 0.8±0.1 >	0.3±0.0 = 0.5±0.0 = 0.3±0.0 = 0.3±0.3 = 0.2±0.0 = 0.2±0.0 =	0.1±0.0 0.2±0.1	- =	- =	- =	0.4±0.0 >			
20:4/20:2	0.1±0.1 = 0.1±0.0 = 0.2±0.0 = 0.2±0.0 = 0.2±0.0 > + <	0.1±0.0 = 0.1±0.0 = 0.2±0.0 = 0.2±0.0 = 0.2±0.1 > 0.1±0.1 <	0.1±0.0 0.1±0.0	0.1±0.1 =	+	0.1±0.0 =	0.1±0.0 =			
20:4/20:2	+ = + = + = + = + = + =	+ = 0.1±0.0 = + = + = + = + = + <	0.1±0.0 +	+ =	+	+	+			
20:2/20:4	+ = + = + = + = + > - <	+ = + = + = + = + = + > - =	+ +	+ =	+	- =	- =			
20:1/20:5	+ = + = + = + = + < + =	0.1±0.0 > + = + = + = + = + > - <	- +	+ =	+	+	+			
20:4/20:1	0.1±0.0 > + > + < + = + = + =	+ = + > + = + = + = + = + =	+ +	+ =	0.1±0.0 =	+	0.7±0.9 =			
20:0/20:5	1.5±0.3 < 2.7±0.1 > 1.9±0.3 < 2.6±0.3 = 2.9±0.2 > 0.8±0.3 <	1.9±0.3 < 2.8±0.3 = 2.6±0.3 > 2.1±0.3 < 2.9±0.3 > 1.7±0.9 =	2.1±0.1 2.1±0.4	1.8±0.1 =	0.4±0.2 =	2.2±0.3 =	1.5±0.3 =			
20:0/20:4	3.1±0.2 > 1.0±0.1 = 0.8±0.3 < 1.3±0.1 < 1.8±0.1 < 5.7±0.6 >	3.4±0.4 > 2.3±0.3 > 1.8±0.2 = 2.0±0.2 < 2.4±0.1 < 6.9±0.6 >	3.0±0.1 4.8±0.5	2.9±0.4 =	5.8±0.6 =	3.1±0.3 =	7.4±1.3 =			
20:4/22:2	+ > + > - = - = - < + >	- < + = + > - < + = + >	- +	- =	+	+	- =			
20:5/22:0	+ < 0.1±0.0 = 0.1±0.0 < 0.2±0.0 = 0.1±0.1 > + <	+ < 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 > 0.1±0.1 =	0.1±0.0 0.1±0.1	0.1±0.0 =	+	0.1±0.0 =	+			
22:0/20:5	+ > - = - < + = + > - <	+ > - = - < + > + > - <	- 0.1±0.0	- =	- =	- =	+			
22:0/20:4	0.2±0.1 > + > + < 0.1±0.0 = 0.1±0.0 < 0.2±0.1 >	0.1±0.0 > 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.1 >	0.1±0.0 0.2±0.0	0.1±0.0 =	0.2±0.1 =	0.1±0.0 =	0.2±0.1 =			
22:6/22:6	- = - = - = - = - = - =	- = - < + > - = - = - =	- -	- =	+	- =	- =			
22:5/22:6	- = - = - = - = - < + >	- = - = - = - < + > - =	- -	+ =	- =	- =	- =			
22:4/22:4	- = - = - = - = - < + >	- = - = - = - = - = - =	- -	- =	- =	- =	- =			
22:5/22:2	- = - = - = - = - = - =	+ > - < + > - = - = - =	+ -	- =	- =	+	- =			
22:5/22:1	+ = + = + = + = + = + =	- < + < + = + = + > - <	- +	+ =	- =	+	+			
24:0/20:5	0.1±0.1 = 0.2±0.0 = 0.1±0.0 < 0.2±0.1 = 0.2±0.0 > + <	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 =	0.2±0.1 0.1±0.1	0.1±0.0 =	0.1±0.0 =	0.1±0.0 =	0.1±0.0 =			
24:0/20:4	0.2±0.0 > 0.1±0.0 = + = 0.1±0.0 = 0.1±0.0 < 0.4±0.0 >	0.1±0.0 = 0.1±0.0 = + = 0.1±0.1 = 0.1±0.0 < 0.2±0.1 >	0.1±0.1 0.2±0.1	0.2±0.0 =	0.3±0.1 =	0.1±0.0 =	0.3±0.1 =			
SFA/SFA	0.1±0.0 = + < 0.1±0.0 = + = + < 0.2±0.1 >	0.1±0.0 > + = + = + = + < 0.2±0.0 >	0.1±0.0 0.2±0.0	0.1±0.0 =	0.2±0.0 =	0.1±0.0 =	0.1±0.0 <			
SFA/MUFA	0.3±0.1 > 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.4±0.1 >	0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 > 0.1±0.0 = 0.3±0.3 =	0.4±0.3 0.7±0.4	0.2±0.0 =	0.3±0.0 =	0.3±0.1 =	0.3±0.2 =			
MUFA/SFA	- = - = - = - = - = - =	- = - = - = - = - = - =	- -	- =	- =	- =	- =			
SFA/PUFA	31.0±0.6 > 24.0±0.9 = 25.9±1.9 = 27.8±1.1 < 31.5±0.5 < 38.6±2.2 >	27.8±0.8>23.9±1.4=23.9±1.2 < 25.8±0.6 < 28.5±0.7 < 37.6±1.0 >	26.5±0.235.1±3.2	34.7±1.1 =	37.7±0.2 =	29.5±0.8 =	37.7±0.5 =			
PUFA/SFA	1.0±0.2 = 1.1±0.0 = 1.1±0.3 = 1.0±0.2 = 0.9±0.1 > 0.4±0.1 <	0.6±0.1 = 0.7±0.1 = 0.7±0.1 = 0.7±0.0 = 0.6±0.1 = 0.8±0.1 =	1.0±0.1 1.1±0.3	1.2±0.1 =	0.4±0.1 =	0.7±0.0 =	1.0±0.5 =			
MUFA/MUFA	0.1±0.0 > + = + = 0.1±0.1 = + = 0.1±0.0 =	0.3±0.1 = 0.4±0.4 = 0.2±0.1 < 0.7±0.2 = 0.5±0.2 = 1.1±0.6 =	1.0±0.5 2.7±2.3	0.1±0.0 =	0.1±0.1 =	1.4±0.0 >	0.6±0.7 =			
MUFA/PUFA	5.4±0.6 < 7.6±0.8 = 6.6±0.9 = 6.5±1.3 = 6.1±0.3 = 5.0±1.1 =	3.4±0.2 < 5.9±0.1 > 4.9±0.2 = 5.1±0.2 > 4.5±0.2 > 2.8±0.4 <	3.3±0.6 2.8±0.3	5.3±0.3 =	4.7±0.2 =	3.3±0.5 =	3.0±0.1 =			
PUFA/ MUFA	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 <	0.1±0.0 = + < 0.1±0.0 < 0.6±0.4 > 0.1±0.0 = 0.2±0.1 <	0.2±0.1 0.3±0.2	0.1±0.0 =	0.1±0.0 =	0.3±0.3 =	0.8±0.9 =			
PUFA/PUFA	63.8±0.4 < 68.9±1.1 = 68.1±2.7 = 66.8±2.0 > 63.6±0.7 > 57.7±2.6 <	69.0±1.0<71.8±1.5=72.4±1.2 > 69.6±0.1 > 68.4±0.7 > 58.3±0.4 <	68.7±0.258.0±4.8	60.2±1.0 =	59.0±0.9 =	65.7±0.7 <	58.3±1.4 =			

PC	The lower part of the blades of infected <i>U. pinnatifida</i> samples							The upper intact part of the blades of infected <i>U. pinnatifida</i> samples							The upper part of the blades of infected <i>U. pinnatifida</i> samples with endophyte	The lower part of the blades of uninfected <i>U. pinnatifida</i> samples				The upper part of the blades of uninfected <i>U. pinnatifida</i> samples												
	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T		Nov.	Jun.	Nov.	S	Jun.	S	Nov.	S	Jun.	S							
14:1/14:0	+	>	-	=	+	=	+	>	-	<	+	=	-	=	-	=	-	<	+	<	+	>	+	-	-	=	-	=	+	=	-	=
14:0/14:0	0.1±0.0	>	+	>	+	=	+	=	+	<	0.1±0.1	>	+	>	+	=	+	=	+	<	+	=	0.1±0.0	+	0.1±0.0	=	0.1±0.1	=	+	=	0.1±0.0	=
14:0/16:4	+	=	+	=	+	=	+	>	-	=	-	<	+	=	+	=	+	>	-	=	-	<	+	-	+	=	+	=	+	=	-	=
16:3/14:0	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	>	-	<	+	+	+	=	+	=	+	=	-	=
14:0/16:2	0.1±0.0	=	+	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	+	=	0.1±0.0	=	+	+	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=
14:0/16:1	0.1±0.0	>	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.1	=	0.1±0.1	=	0.1±0.1	=	0.1±0.1	=	0.1±0.0	=	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	0.1±0.1	0.2±0.0	=	0.1±0.0	=	0.1±0.0	=
14:0/16:1	+	=	+	<	0.1±0.0	=	0.1±0.0	=	+	=	0.1±0.1	=	+	=	0.1±0.0	=	+	=	+	=	+	=	0.1±0.0	=	0.1±0.0	0.1±0.0	+	=	0.1±0.1	=	0.1±0.0	=
14:0/16:0	0.1±0.0	>	+	=	+	=	+	=	+	<	0.3±0.1	>	0.1±0.0	>	+	=	+	>	+	<	+	<	0.2±0.1	>	0.1±0.0	0.1±0.1	0.2±0.0	=	0.4±0.1	=	0.1±0.0	=
14:1/18:4	+	=	+	=	+	=	+	>	+	=	+	<	0.1±0.0	=	0.1±0.0	>	+	=	+	=	+	=	+	=	0.1±0.0	0.1±0.0	+	=	+	=	+	=
14:0/18:4	0.3±0.0	>	0.2±0.0	=	0.2±0.0	>	0.2±0.0	=	0.2±0.0	=	0.1±0.1	=	0.5±0.1	=	0.4±0.1	=	0.4±0.0	>	0.2±0.0	=	0.2±0.0	<	0.5±0.1	>	0.9±0.2	0.9±0.3	0.5±0.0	>	0.3±0.1	=	0.7±0.1	=
14:0/18:3	2.9±0.2	>	1.3±0.3	=	1.3±0.1	>	1.0±0.2	<	1.4±0.1	=	1.6±0.3	>	3.0±0.4	>	1.9±0.1	>	1.7±0.0	>	0.8±0.0	<	1.2±0.1	<	1.7±0.0	>	2.1±0.2	1.7±0.1	3.1±0.1	=	1.9±0.0	=	2.3±0.3	=
14:0/18:2	2.5±0.2	>	1.6±0.4	=	1.6±0.1	=	1.7±0.1	<	2.5±0.1	<	3.8±0.8	>	3.4±0.3	>	2.4±0.4	=	2.0±0.1	=	1.8±0.3	<	2.5±0.3	<	3.3±0.6	>	1.9±0.2	2.2±0.1	3.1±0.5	=	4.5±0.8	=	2.5±0.2	=
14:0/18:1	0.7±0.1	>	0.4±0.1	=	0.3±0.1	=	0.4±0.2	=	0.4±0.1	<	0.8±0.2	>	0.6±0.1	>	0.3±0.1	=	0.2±0.1	<	0.3±0.0	=	0.3±0.1	=	0.4±0.2	=	0.4±0.0	0.5±0.1	0.8±0.1	=	0.7±0.3	=	0.6±0.0	=
16:0/16:1	0.2±0.0	>	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.0	=	0.2±0.1	>	0.2±0.0	>	0.1±0.0	=	0.1±0.1	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=	0.1±0.0	0.1±0.0	0.3±0.0	=	0.2±0.1	=	0.1±0.0	=
16:0/16:0	0.1±0.0	=	0.1±0.1	=	+	>	+	<	+	<	0.1±0.0	>	0.1±0.0	>	+	=	+	=	+	=	+	<	0.1±0.0	=	+	0.1±0.0	0.1±0.0	=	0.2±0.2	=	+	=
15:1/18:4	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	>	+	=	+	=	+	=	+	+	+	=	+	=	+	=	+	=
17:3/16:1	0.1±0.0	>	+	=	+	=	+	=	+	=	+	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	+	=	+	<	0.1±0.0	>	0.2±0.1	0.2±0.1	0.1±0.0	=	+	=	0.1±0.0	=
15:0/18:3	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.2±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=	0.1±0.0	=	0.1±0.1	=	0.1±0.0	0.2±0.1	0.1±0.0	=	0.1±0.0	=	0.2±0.1	=
15:0/18:2	0.1±0.0	>	0.1±0.0	=	0.1±0.0	=	0.1±0.1	=	0.1±0.0	<	0.2±0.1	>	0.3±0.0	=	0.2±0.0	=	0.2±0.0	=	0.2±0.0	=	0.2±0.0	<	0.4±0.1	>	0.2±0.0	0.3±0.1	0.2±0.0	=	0.2±0.1	=	0.2±0.1	=
15:0/18:1	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	+	=	0.1±0.0	>	+	+	+	=	0.1±0.1	=	+	=
15:0/18:1	+	=	+	>	+	<	+	=	+	=	+	=	+	=	+	=	+	<	+	>	-	<	+	+	+	=	+	=	+	=	-	=
16:3/18:3	+	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	+	>	+	<	0.1±0.0	<	0.1±0.0	=	0.1±0.0	>	+	=	+	>	-	=	+	+	+	=	-	=	+	=
14:0/20:5	4.4±0.5	<	7.1±0.1	<	7.5±0.2	=	6.5±1.1	=	7.7±1.1	>	1.6±0.4	<	7.0±0.9	=	7.9±0.6	>	6.4±0.5	>	3.8±0.6	<	5.7±0.3	=	5.0±2.1	=	7.4±0.3	6.9±1.1	5.0±0.4	=	1.0±0.1	=	7.1±0.4	=
14:0/20:4	1.2±0.4	>	0.5±0.1	=	0.4±0.1	<	0.7±0.2	<	1.0±0.0	>	0.4±0.2	=	2.0±0.1	>	0.7±0.1	=	0.6±0.1	=	0.6±0.2	=	0.7±0.3	<	1.1±0.2	>	2.3±0.1	1.1±0.1	1.5±0.2	=	0.2±0.0	=	2.6±0.1	>
14:0/20:4	6.9±1.2	>	3.5±0.5	=	3.9±0.2	=	4.2±1.0	<	5.7±0.5	<	8.1±0.8	>	4.9±0.2	>	3.5±0.2	>	3.2±0.1	=	3.0±0.2	=	3.3±0.6	<	7.5±1.0	>	4.3±0.1	5.8±0.5	7.3±0.3	=	7.5±0.2	=	4.9±0.3	=
14:0/20:3	1.2±0.2	>	0.7±0.1	=	0.7±0.1	=	0.6±0.0	<	1.0±0.2	<	1.5±0.3	>	0.8±0.1	>	0.6±0.1	=	0.6±0.0	>	0.4±0.0	=	0.4±0.0	<	1.4±0.2	>	0.8±0.1	1.2±0.4	1.3±0.2	=	1.4±0.2	=	0.8±0.1	=
16:0/18:3	8.6±0.2	>	4.0±0.9	=	4.3±0.2	<	4.7±0.3	<	5.4±0.5	=	6.6±1.6	=	6.0±0.5	=	5.4±0.3	<	6.1±0.5	=	5.6±0.6	=	5.3±0.2	>	4.1±0.6	<	5.7±0.5	4.3±0.1	8.1±0.2	=	7.4±0.2	=	5.6±0.5	=
18:0/16:3	0.3±0.1	=	0.3±0.1	=	0.2±0.1	=	0.2±0.1	=	0.4±0.2	=	0.3±0.2	=	0.2±0.1	=	0.3±0.2	=	0.4±0.0	=	0.3±0.1	=	0.3±0.0	=	0.2±0.1	=	0.2±0.1	0.2±0.0	0.6±0.3	=	0.4±0.2	=	0.3±0.1	=
16:0/18:2	4.7±0.3	=	4.3±0.7	=	4.4±0.3	=	4.5±1.1	=	5.3±0.4	<	9.0±0.8	>	6.8±0.5	>	5.4±0.7	<	6.5±0.3	<	8.3±1.0	=	8.8±1.3	=	8.8±2.0	=	5.6±0.8	6.4±1.3	4.7±0.5	=	10.6±1.5	=	5.8±0.3	=
16:0/18:1	1.3±0.4	>	0.7±0.2	>	0.3±0.0	=	0.2±0.1	<	0.5±0.1	<	1.4±0.2	>	1.2±0.2	>	0.3±0.1	=	0.4±0.1	=	0.3±0.0	=	0.3±0.1	<	1.1±0.3	>	1.1±0.1	1.2±0.3	1.2±0.2	=	1.7±0.1	=	1.2±0.0	=
16:0/18:0	+	=	+	>	+	=	+	=	+	=	+	<	+	>	-	<	+	=	+	=	-	<	+	>	+	+	-	=	+	=	+	=
18:4/17:2	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.0	=	0.1±0.0	>	0.1±0.0	>	+	<	0.1±0.0	=	0.1±0.1	=	0.1±0.0	0.1±0.0	0.1±0.0	=	+	=	0.1±0.0	=
15:0/20:5	0.1±0.0	<	0.3±0.0	=	0.3±0.1	=	0.2±0.1	=	0.2±0.0	>	0.2±0.1	=	0.3±0.0	=	0.3±0.0	=	0.4±0.0	>	0.2±0.0	<	0.4±0.0	<	0.5±0.1	>	0.4±0.1	0.7±0.2	0.2±0.1	=	0.1±0.0	=	0.5±0.0	>
15:0/20:4	-	=	-	=	-	<	0.1±0.0	>	+	>	-	<	-	=	-	=	-	<	0.1±0.0	=	0.1±0.0	>	-	<	-	-	-	=	-	=	-	=
15:0/20:4	0.3±0.0	>	0.2±0.0	=	0.2±0.0	=	0.1±0.1	=	0.2±0.0	<	0.4±0.2	>	0.4±0.1	>	0.2±0.0	=	0.3±0.0	>	0.2±0.0	=	0.2±0.1	<	0.6±0.1	>	0.5±0.1	0.7±0.1	0.4±0.1	=	0.4±0.0	=	0.5±0.0	=
17:1/18:2	0.2±0.0	>	0.1±0.0	=	0.1±0.0	<	0.1±0.0	=	0.2±0.0	=	0.2±0.1	>	0.2±0.0	>	0.1±0.0	<	0.1±0.0	=	0.2±0.1	=	0.2±0.0	=	0.2±0.1	=	0.2±0.0	0.2±0.1	0.2±0.0	=	0.2±0.0	=	0.2±0.1	=

17:0/18:2	0.1±0.0 = 0.1±0.0 > + > + = + < 0.2±0.0 >	0.2±0.0 = 0.1±0.0 > 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.2±0.1 =	0.2±0.1 0.1±0.1	0.1±0.0 =	0.2±0.0 =	0.2±0.0 =	0.2±0.1 =
16:0/19:1	0.1±0.1 > + = + = + = + < + =	0.1±0.0 > + = + = + > - < + =	0.4±0.6 +	+ =	0.1±0.0 =	+ =	+ =
18:4/18:4	0.1±0.0 < 0.1±0.0 < 0.2±0.0 > + < 0.1±0.0 > + =	+ < 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = + = 0.1±0.0 =	0.1±0.1 0.1±0.0	0.1±0.0 =	+ =	0.1±0.0 =	+ =
18:3/18:4	0.3±0.1 < 0.4±0.1 < 0.5±0.0 > 0.3±0.1 = 0.3±0.0 > 0.1±0.0 <	0.2±0.0 < 0.3±0.1 = 0.3±0.0 > 0.2±0.1 = 0.2±0.0 > 0.2±0.0 =	0.3±0.1 0.2±0.1	0.3±0.0 =	0.1±0.0 =	0.2±0.0 =	0.2±0.0 =
18:3/18:3	1.2±0.1 < 1.9±0.2 = 1.7±0.3 = 1.2±0.2 > 0.9±0.0 > 0.5±0.2 <	0.8±0.2 < 1.3±0.2 = 1.2±0.1 > 0.9±0.0 < 1.0±0.0 > 0.4±0.1 <	0.8±0.3 0.7±0.2	1.2±0.1 =	0.3±0.0 =	0.7±0.1 =	0.4±0.1 =
18:3/18:2	0.6±0.3 = 0.8±0.1 > 0.4±0.1 = 0.3±0.1 = 0.2±0.1 = 0.4±0.3 =	0.2±0.0 < 0.5±0.2 = 0.4±0.1 > 0.2±0.0 = 0.2±0.1 = 0.2±0.1 =	0.2±0.1 0.2±0.1	0.5±0.3 =	0.4±0.2 =	0.2±0.0 =	0.1±0.1 =
18:2/18:3	0.6±0.1 > 0.3±0.0 > 0.2±0.0 = 0.3±0.1 = 0.3±0.1 = 0.3±0.1 =	0.3±0.1 = 0.3±0.1 = 0.2±0.0 > 0.1±0.1 < 0.4±0.1 = 0.2±0.1 =	0.3±0.1 0.2±0.1	0.6±0.2 =	0.3±0.0 =	0.2±0.0 =	0.2±0.0 =
20:4/16:1	0.2±0.2 = 0.2±0.0 = 0.1±0.0 = 0.2±0.1 = 0.2±0.1 = 0.3±0.0 =	0.1±0.0 < 0.2±0.0 > 0.1±0.1 < 0.2±0.1 = 0.2±0.1 = 0.2±0.0 =	0.1±0.0 0.1±0.0	0.3±0.0 =	0.2±0.1 =	0.2±0.0 =	0.1±0.0 <
16:0/20:5	7.2±1.3 < 16.4±1.6 < 21.2±1.1 > 18.8±1.0 > 15.3±0.7 > 3.4±1.5 <	12.1±1.4 < 18.5±0.6 = 20.8±2.0 = 18.9±1.6 = 19.1±1.0 > 10.2±2.6 <	14.7±2.1 14.5±1.9	8.1±0.1 =	2.1±0.4 =	14.0±0.4 =	8.0±3.4 =
16:0/20:4	2.1±0.4 > 0.8±0.2 < 1.3±0.1 = 1.8±0.7 = 2.0±0.2 > 0.7±0.2 <	3.3±0.1 > 1.4±0.1 < 1.8±0.1 = 2.6±0.8 = 2.1±0.7 = 2.3±0.3 =	4.4±1.0 3.6±1.7	1.9±0.1 =	1.0±0.4 =	4.6±0.1 >	1.9±1.4 =
16:0/20:4	9.6±0.9 > 6.7±0.7 = 7.5±0.5 = 9.0±1.4 = 9.0±1.0 < 15.4±1.3 >	7.1±0.1 > 5.9±0.4 = 5.9±0.1 < 9.5±1.8 = 7.6±0.7 < 12.2±1.9 =	5.7±0.4 9.6±0.5	9.2±1.5 =	14.9±0.2 =	6.8±0.2 =	12.5±0.1 =
16:0/20:3	6.0±0.4 > 1.8±0.2 < 2.4±0.2 < 4.1±0.0 < 4.4±0.0 < 6.4±1.2 >	3.7±0.3 > 2.1±0.1 < 2.7±0.1 < 4.1±0.6 > 2.6±0.2 < 3.1±0.3 <	2.7±0.2 2.7±0.3	5.3±0.2 =	7.1±0.9 =	3.2±0.1 =	3.2±0.3 =
18:0/18:2	0.6±0.2 = 0.7±0.7 = 0.2±0.1 < 0.3±0.0 = 0.4±0.1 < 1.4±0.3 >	1.1±0.2 > 0.4±0.1 = 0.4±0.0 < 0.6±0.0 = 0.8±0.2 < 1.8±0.2 >	0.9±0.2 0.9±0.2	0.5±0.0 =	1.6±0.4 =	0.9±0.2 =	2.1±0.2 =
18:0/18:1	0.1±0.1 = 0.1±0.1 = + = + = + < 0.2±0.0 >	0.1±0.0 = + = + = + = + = 0.1±0.1 =	0.1±0.0 0.1±0.0	0.1±0.1 =	0.2±0.1 =	0.1±0.0 =	0.1±0.0 =
18:0/18:0	+ = + > + = + = + < + >	+ > + = + < + = + = + =	- +	+ =	+ =	+ =	- =
20:5/18:5	+ = 0.1±0.0 = 0.1±0.0 > - = + = + =	+ = + = + = 0.1±0.0 = 0.1±0.0 > + =	0.1±0.0 +	+ =	- =	+ =	+ =
20:5/18:4	0.3±0.1 < 0.5±0.0 = 0.5±0.0 > 0.3±0.1 = 0.2±0.0 > 0.1±0.0 <	0.3±0.0 < 0.6±0.2 = 0.7±0.1 > 0.4±0.1 = 0.3±0.0 > 0.2±0.0 <	0.9±0.2 0.7±0.4	0.3±0.0 =	0.1±0.1 =	0.6±0.1 =	0.2±0.1 =
20:5/18:3	2.0±0.2 < 5.0±0.4 > 4.0±0.6 > 2.3±0.1 = 2.1±0.2 > 0.8±0.3 <	1.7±0.2 < 3.1±0.3 = 3.2±0.2 > 2.0±0.4 = 1.9±0.2 > 1.0±0.0 <	2.6±0.5 2.4±0.5	2.1±0.1 =	0.5±0.1 =	1.7±0.2 =	1.0±0.3 =
20:4/18:3	4.5±0.4 < 6.5±0.6 > 4.5±0.4 = 4.3±0.3 > 3.8±0.1 = 2.9±0.9 <	3.3±0.1 < 5.1±0.3 = 4.9±0.3 > 4.0±0.3 = 4.2±0.2 > 2.0±0.5 <	3.0±0.4 2.6±0.3	4.3±0.1 =	3.0±1.0 =	2.9±0.2 =	2.3±0.1 =
20:5/18:2	0.4±0.1 = 0.4±0.1 = 0.5±0.0 = 0.3±0.1 = 0.2±0.1 = 0.3±0.1 =	0.2±0.0 = 0.3±0.0 = 0.3±0.0 = 0.3±0.1 = 0.3±0.0 = 0.4±0.4 =	0.3±0.1 0.3±0.1	0.5±0.0 =	0.3±0.1 =	0.2±0.0 =	0.4±0.2 =
20:4/18:2	3.8±0.3 > 2.9±0.3 > 2.1±0.2 < 2.6±0.3 = 2.7±0.2 < 5.2±1.0 >	3.3±0.5 = 2.8±0.2 > 1.9±0.3 < 3.0±0.4 = 3.4±0.3 = 3.8±1.0 =	2.5±0.2 2.3±0.4	3.8±0.4 =	6.5±0.2 =	2.2±0.1 =	4.3±1.4 =
18:1/20:5	0.5±0.0 > 0.2±0.0 = 0.2±0.0 = 0.2±0.0 = 0.1±0.1 < 0.6±0.3 >	0.3±0.2 = 0.2±0.0 = 0.2±0.1 = 0.4±0.1 > 0.2±0.0 < 0.3±0.0 =	0.3±0.1 0.3±0.1	0.3±0.1 =	0.5±0.1 =	0.2±0.0 =	0.4±0.4 =
20:3/18:2	0.3±0.1 > 0.2±0.1 = 0.1±0.0 = 0.2±0.1 = 0.2±0.0 = 0.3±0.1 =	0.2±0.1 = 0.2±0.0 = 0.2±0.0 = 0.2±0.0 = 0.2±0.0 = 0.2±0.1 =	0.1±0.0 0.1±0.0	0.2±0.0 <	0.5±0.3 =	0.1±0.1 =	0.1±0.0 =
18:2/20:3	0.3±0.1 > + = + < 0.1±0.0 = 0.1±0.0 = 0.2±0.2 =	0.2±0.1 = + = + = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 =	0.1±0.1 0.1±0.0	- =	0.2±0.2 =	+ =	0.1±0.1 =
20:4/18:1	0.3±0.1 > 0.2±0.1 > 0.1±0.0 = 0.1±0.0 = 0.2±0.1 < 0.5±0.2 >	0.2±0.1 = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.1 >	0.2±0.1 0.2±0.0	0.5±0.0 =	0.6±0.0 =	0.3±0.1 =	0.2±0.1 =
18:0/20:5	1.2±0.2 < 1.6±0.1 > 0.9±0.1 = 1.2±0.3 = 1.3±0.0 > 0.8±0.3 =	2.0±0.3 > 1.6±0.1 = 1.5±0.2 = 1.2±0.2 = 1.4±0.4 = 1.8±0.5 =	1.9±0.3 1.7±0.0	1.2±0.1 =	0.5±0.0 =	1.9±0.1 =	1.7±0.5 =
18:0/20:4	0.2±0.1 = 0.1±0.0 = + < 0.1±0.0 = 0.1±0.0 > + <	0.4±0.1 > 0.1±0.0 = 0.1±0.0 = 0.1±0.1 = 0.1±0.0 < 0.3±0.0 >	0.6±0.0 0.2±0.1	0.1±0.1 =	0.4±0.5 =	0.4±0.1 =	0.4±0.1 =
18:0/20:4	1.4±0.1 = 0.9±0.8 = 0.3±0.0 < 0.4±0.1 < 0.6±0.1 < 3.1±0.7 >	0.9±0.0 > 0.4±0.2 = 0.4±0.0 = 0.6±0.2 = 0.5±0.2 < 1.8±0.2 >	0.9±0.2 1.1±0.3	1.3±0.1 =	2.4±0.6 =	0.9±0.1 =	2.1±0.6 =
18:0/20:3	0.4±0.0 > 0.1±0.0 = + < 0.1±0.0 < 0.1±0.0 = 0.5±0.3 >	0.2±0.1 = 0.1±0.1 = 0.2±0.1 = 0.2±0.0 = 0.1±0.1 = 0.2±0.1 =	0.1±0.0 0.2±0.1	0.2±0.0 <	0.6±0.1 =	0.2±0.2 =	0.5±0.2 =
20:0/18:3	0.3±0.1 = 0.1±0.1 = 0.1±0.0 < 0.1±0.0 = 0.1±0.1 < 0.6±0.3 >	0.3±0.2 = 0.2±0.1 = 0.2±0.1 = 0.1±0.0 = 0.1±0.0 = 0.3±0.2 =	0.3±0.1 0.1±0.1	0.3±0.0 =	0.5±0.2 =	0.3±0.2 =	0.1±0.1 =
20:0/18:2	0.1±0.0 = 0.1±0.1 = + = + = + < 0.3±0.2 >	0.2±0.0 > 0.1±0.1 = 0.1±0.0 = 0.2±0.0 < 0.2±0.0 < 0.6±0.1 >	0.3±0.1 0.3±0.1	0.1±0.0 =	0.4±0.1 =	0.3±0.0 =	0.6±0.2 =
16:0/22:1	+ = + = + = + = + = + >	+ = + = + < + = + = + =	+ +	+ =	- =	+ =	+ =
20:0/18:0	- < + > - < + = + = + =	- < + = + < + > - < + >	- +	- =	- =	- =	- =
20:5/20:5	1.8±0.5 < 10.1±1.2 = 10.3±0.4 > 6.6±0.4 > 4.8±0.3 > 0.3±0.3 <	3.3±0.3 < 8.1±0.2 = 8.5±0.4 > 5.1±0.9 = 5.4±0.6 > 1.2±0.6 <	5.7±0.4 3.9±0.5	2.1±0.1 =	0.2±0.1 =	4.2±0.5 =	1.2±0.7 =
20:5/20:4	0.6±0.2 < 1.0±0.2 = 0.8±0.1 = 0.7±0.3 = 0.9±0.2 > 0.1±0.0 <	0.8±0.3 = 0.9±0.1 = 0.9±0.1 > 0.7±0.1 < 0.9±0.1 > 0.5±0.1 =	1.7±0.3 1.2±0.1	0.4±0.1 =	0.1±0.1 =	1.6±0.6 =	0.3±0.3 =
20:4/20:5	5.4±0.7 < 8.4±1.5 = 7.9±0.7 < 9.0±0.0 > 7.8±0.3 > 2.5±0.8 <	7.0±0.2 < 8.0±0.6 = 7.4±0.5 < 8.5±0.4 = 8.9±0.8 > 5.3±0.5 <	6.4±0.7 5.5±0.9	5.7±0.1 =	1.4±0.2 =	6.7±0.4 =	4.8±0.1 =
20:4/20:4	1.7±0.4 > 1.1±0.1 = 1.1±0.1 < 1.8±0.5 = 1.7±0.1 > 0.8±0.4 <	2.0±0.1 > 1.2±0.1 = 1.2±0.1 < 1.7±0.3 = 1.5±0.3 = 1.2±0.2 <	1.7±0.3 1.5±0.3	1.9±0.2 =	0.5±0.2 =	2.0±0.1 =	1.3±0.1 =
20:4/20:4	5.4±1.0 > 2.6±0.5 = 2.5±0.2 < 3.9±0.4 = 3.9±0.3 < 8.7±1.2 >	2.9±0.4 > 2.2±0.3 = 1.8±0.4 < 3.7±0.9 = 2.8±0.3 < 6.3±1.6 >	1.9±0.3 3.9±1.0	4.5±0.6 =	7.6±0.8 =	2.0±0.2 =	6.3±2.6 =
20:4/20:3	2.4±0.4 > 0.7±0.2 = 0.7±0.0 < 1.6±0.3 = 1.7±0.1 < 3.0±0.6 >	1.1±0.2 > 0.8±0.1 = 0.8±0.2 < 1.4±0.2 > 0.9±0.1 < 1.3±0.2 =	0.9±0.1 1.1±0.4	2.0±0.3 =	3.2±0.4 =	1.0±0.0 =	1.3±0.6 =
20:4/20:2	0.2±0.1 > 0.1±0.0 = 0.1±0.0 = 0.1±0.1 = 0.1±0.0 < 0.3±0.0 =	0.1±0.1 < 0.2±0.0 = 0.2±0.1 = 0.2±0.0 = 0.2±0.1 = 0.2±0.0 =	0.1±0.0 0.1±0.1	0.2±0.0 =	0.2±0.1 =	0.1±0.0 =	0.2±0.0 =
20:4/20:2	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.1 = 0.1±0.0 < 0.3±0.1 >	0.1±0.1 = 0.1±0.1 = 0.1±0.1 = 0.1±0.0 = 0.2±0.1 < 0.4±0.1 >	0.1±0.0 0.2±0.1	0.1±0.0 =	0.2±0.2 =	0.1±0.0 =	0.3±0.1 =
20:0/20:5	0.5±0.1 < 0.9±0.1 > 0.7±0.1 < 0.9±0.2 = 0.7±0.1 > 0.3±0.1 <	0.8±0.1 < 1.4±0.3 = 1.1±0.1 = 1.0±0.1 = 1.3±0.2 > 0.8±0.2 =	0.9±0.1 0.8±0.1	0.6±0.1 =	0.2±0.0 =	1.1±0.2 =	0.8±0.4 =
20:0/20:4	0.4±0.1 > 0.1±0.0 = 0.1±0.0 < 0.3±0.0 = 0.3±0.0 < 1.0±0.2 >	0.4±0.1 = 0.3±0.1 = 0.2±0.0 < 0.4±0.1 = 0.3±0.0 < 0.9±0.3 >	0.5±0.1 0.6±0.2	0.4±0.1 =	1.0±0.1 =	0.5±0.1 =	0.8±0.1 =

22:1/18:2	+ = + = + = + = + < + =	+ = + = + = + = + < + >	0.1±0.1 +	+ =	0.1±0.1 =	+ =	+ =
20:5/22:2	- = - = - = - < + > - =	+ > - = - < + = + < + >	- +	+ =	- =	- =	- =
20:4/22:2	- = + = + = + > - = - <	+ < + > + = + = + > - <	- -	- =	- =	- =	- =
SFA/SFA	0.3±0.0 > 0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.6±0.1 >	0.2±0.0 > 0.1±0.0 = + = + = 0.1±0.0 < 0.3±0.1 >	0.2±0.0 0.2±0.1	0.3±0.0 =	0.7±0.4 =	0.2±0.0 =	0.4±0.0 =
SFA/MUFA	2.5±0.6 > 1.3±0.2 > 0.7±0.1 = 0.8±0.3 = 1.0±0.1 < 2.7±0.3 >	2.2±0.4 > 0.9±0.1 = 0.7±0.2 = 0.7±0.1 = 0.8±0.1 < 1.8±0.4 >	2.2±0.6 2.0±0.2	2.5±0.4 =	2.9±0.1 =	2.1±0.0 =	2.2±0.1 =
MUFA/SFA	- = - = - = - = - = - =	- = - = - = - = - = - =	- -	- =	- =	- =	- =
SFA/PUFA	63.7±1.1 > 54.5±2.7 < 60.1±0.6 < 62.4±1.1 < 65.7±1.2 < 67.7±0.8 >	68.4±0.8 > 62.1±1.4 = 64.2±1.7 = 65.2±0.7 = 65.6±1.0 < 71.7±1.1 >	66.4±1.869.0±2.9	65.3±0.1 =	69.0±3.1 =	69.5±1.1 =	71.3±3.5 =
PUFA/SFA	+ = + = + > + = + > + =	+ = + = + > + = + > + =	+ +	+ =	+ =	+ =	+ =
MUFA/MUFA	- = - = - = - = - = - =	- = - = - = - = - = - =	- -	- =	- =	- =	- =
MUFA/PUFA	0.8±0.0 > 0.3±0.1 = 0.3±0.1 = 0.3±0.1 = 0.3±0.2 < 0.8±0.2 >	0.6±0.2 = 0.4±0.0 = 0.5±0.1 = 0.5±0.1 > 0.3±0.1 < 0.5±0.1 =	0.6±0.0 0.7±0.0	0.6±0.1 =	0.9±0.2 =	0.5±0.0 =	0.7±0.3 =
PUFA/ MUFA	0.6±0.1 > 0.4±0.0 > 0.3±0.0 = 0.4±0.1 = 0.4±0.0 < 0.8±0.2 >	0.3±0.1 = 0.4±0.1 > 0.2±0.0 < 0.3±0.1 = 0.3±0.0 < 0.5±0.1 >	0.5±0.1 0.5±0.1	0.7±0.2 =	0.8±0.1 =	0.5±0.1 =	0.4±0.0 =
PUFA/PUFA	31.9±1.0 < 43.2±2.8 > 38.4±0.5 > 36.0±1.3 > 32.3±1.1 > 27.1±1.2 <	28.1±0.6 < 36.0±1.2 = 34.3±1.6 = 33.0±0.8 = 32.9±1.0 > 25.0±1.3 <	30.0±1.227.6±3.3	30.3±0.5 =	25.5±3.2 =	27.1±1.2 =	24.9±3.2 =

PI	The lower part of the blades of infected <i>U. pinnatifida</i> samples							The upper intact part of the blades of infected <i>U. pinnatifida</i> samples							The upper part of the blades of infected <i>U. pinnatifida</i> samples with endophyte		The lower part of the blades of uninfected <i>U. pinnatifida</i> samples		The upper part of the blades of uninfected <i>U. pinnatifida</i> samples					
	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Jun.	Nov.	S	Jun.	S	Nov.	S	Jun.	S
14:0/18:4	0.1±0.2 =	+	=	+	=	+	=	0.1±0.2 =	+	=	+	=	+	=	+	=	+	+	+	=	+	=	+	=
18:3/14:0	0.3±0.4 =	0.6±0.7 =	0.6±0.8 =	+	=	+	=	+	=	+	=	0.2±0.4 =	0.3±0.3 =	+	=	0.2±0.3 =	1.6±2.7	+	0.6±0.8 =	+	=	0.4±0.6 =	0.6±0.8 =	
14:0/18:2	0.8±0.5 =	3.7±4.0 =	1.3±1.3 =	0.1±0.2 =	0.3±0.5 =	1.7±1.9 =		2.2±1.3 =	0.4±0.8 =	0.3±0.3 =	0.2±0.2 =	0.2±0.3 =	1.7±2.2 =		0.1±0.2	1.0±1.0	+	1.6±2.3 =	1.1±0.3 =	0.1±0.1 =				
14:0/18:1	4.0±1.9 =	2.9±0.7 =	1.9±1.4 =	1.3±0.9 =	3.1±1.5 =	4.2±2.8 =		3.6±3.5 =	0.2±0.3 <	3.9±1.0 =	3.3±3.3 =	3.7±2.0 =	2.0±3.2 =		4.4±0.4	5.3±3.2	3.4±0.3 =	4.5±0.4 =	2.3±0.5 =	0.4±0.3 =				
16:0/16:0	1.5±1.3 =	0.4±0.6 =	0.3±0.3 =	0.3±0.2 =	0.1±0.2 =	0.8±0.8 =		0.3±0.5 =	0.4±0.6 =	+	=	1.3±1.8 =	0.3±0.6 =	0.2±0.3 =		0.6±0.5	0.7±1.2	0.4±0.6 =	+	=	1.9±1.8 =	0.6±0.8 =		
14:0/20:5	+	=	+	=	+	=	+	+	=	+	=	0.3±0.5 =	+	=	0.1±0.2 =	+	0.1±0.2	+	=	+	=	+	=	0.5±0.7 =
16:0/18:4	0.2±0.4 =	0.2±0.4 =	0.5±0.4 =	0.3±0.3 >	+	=	0.2±0.4 =	1.5±1.3 >	+	=	0.2±0.3 =	0.3±0.3 =	+	=	0.4±0.4 =	0.3±0.2	0.3±0.5	1.6±2.3 =	2.0±2.8 =	+	=	0.2±0.3 =		
16:0/18:3	2.9±2.8 =	4.9±2.3 =	6.1±1.6 >	2.0±1.0 =	2.4±1.5 =	2.9±3.5 =		5.6±3.7 =	1.3±1.2 <	5.7±1.3 =	3.8±1.2 =	6.3±2.8 =	10.0±2.6 >		9.5±5.5	8.4±4.3	6.0±0.4 =	7.1±10.1 =	5.7±1.5 =	13.6±6.6 =				
16:0/18:2	8.2±2.9 <	14.0±1.8 =	14.4±1.3 <	20.8±5.4 =	16.2±3.0 =	14.4±2.7 =		9.0±2.4 =	18.9±18.4 =	15.4±4.9 =	23.0±4.9 =	26.7±2.7 =	28.0±4.5 =		10.7±3.8	17.8±4.5	7.1±2.7 =	12.5±8.4 =	9.1±3.0 =	25.8±0.3 =				
16:0/18:1	66.7±3.1 >	60.4±2.2 =	63.8±3.2 =	65.0±4.5 =	64.7±10.1 =	63.5±8.3 =		61.6±6.7 =	73.1±13.4 =	60.6±0.8 =	54.2±5.6 =	48.8±3.6 >	42.6±3.8 <		59.4±3.1	147.1±6.2	67.3±3.1 =	55.1±5.9 =	67.2±9.6 =	40.2±1.0 =				
16:0/18:0	8.4±1.5 =	9.3±3.0 =	9.3±1.4 =	7.6±1.1 =	8.1±2.2 =	9.1±3.7 =		8.7±0.3 =	13.0±5.8 =	7.9±2.2 =	7.5±3.0 =	7.1±2.6 =	7.1±5.0 =		8.7±2.3	10.7±5.6	8.2±0.8 =	3.7±2.0 =	7.6±4.2 =	5.5±1.1 =				
17:0/18:4	0.6±1.0 =	0.5±0.9 =	0.3±0.4 =	0.3±0.3 =	0.4±0.3 =	0.3±0.4 =		+	=	+	=	0.1±0.2 =	0.4±0.7 =	+	=	0.5±0.9 =	+	1.0±1.7	+	=	+	=	+	=
17:0/18:3	0.2±0.4 =	0.4±0.6 =	+	=	0.6±0.7 =	+	=	0.1±0.2 =		+	=	+	=	0.6±1.0 =	0.1±0.2 =	0.7±0.8 =	+	+	+	=	0.3±0.4 =	0.3±0.5 =		
17:0/18:2	0.2±0.4 =	+	=	0.2±0.3 =	0.6±0.3 =	0.2±0.3 =	0.1±0.2 <	0.2±0.4 =	0.1±0.1 =	0.1±0.2 =	0.1±0.2 =	+	=	1.1±1.3 =	+	0.3±0.5	+	=	+	=	+	=	0.2±0.3 =	
18:1/17:0	0.6±0.4 =	0.8±1.1 =	1.4±1.7 =	1.3±0.6 >	0.3±0.5 =	0.4±0.4 <		+	=	0.2±0.3 <	0.8±0.2 =	1.6±2.7 =	0.9±0.9 =	0.4±0.7 =		1.3±0.5	1.0±1.2	0.7±1.0 =	2.0±2.8 =	0.7±1.0 =	0.3±0.4 =			
16:0/20:5	0.8±0.7 =	0.6±0.8 =	1.2±0.4 =	1.0±1.2 =	0.8±0.9 =	0.4±0.4 =		0.1±0.3 =	0.3±0.5 =	1.5±1.9 =	+	<	1.2±0.5 =	0.6±0.8 =		0.6±0.8	0.6±1.1	0.8±1.1 =	+	=	0.8±0.2 >	1.3±1.8 =		
16:0/20:4	0.2±0.2 <	1.8±1.0 =	0.4±0.4 =	0.5±0.6 =	1.7±0.7 =	0.6±0.5 =		0.4±0.4 =	0.3±0.5 <	1.9±1.0 =	1.4±0.4 =	1.9±0.6 =	0.9±0.9 =		0.5±0.4	4.5±1.8	0.8±1.1 =	7.1±2.5 =	+	=	1.1±1.5 =			
20:3/16:0	0.1±0.2 =	1.1±1.0 =	0.9±0.9 =	0.6±0.4 =	1.2±1.3 =	1.6±0.7 >		1.2±0.4 >	0.1±0.1 <	1.7±1.0 =	1.3±1.0 =	1.0±0.9 >	+	<	0.7±0.3	1.1±1.5	0.2±0.3 =	+	=	+	<	1.7±2.4 =		
18:1/18:1	2.3±1.0 =	1.0±0.9 =	0.7±0.5 =	0.7±0.7 <	2.5±0.7 =	1.9±1.6 =		0.6±1.0 =	0.3±0.5 =	0.5±0.5 =	1.0±0.6 =	0.8±1.4 =	0.2±0.4 =		1.0±1.4	0.3±0.5	0.6±0.3 =	0.6±0.9 =	0.1±0.2 =	0.1±0.2 =				
18:0/18:1	1.9±2.3 =	1.4±1.5 =	2.2±0.8 =	1.4±0.4 =	2.9±1.5 =	3.5±0.7 >		3.7±2.3 =	1.2±2.0 =	1.3±0.5 =	1.4±0.3 =	1.3±1.5 =	0.3±0.3 <		0.7±1.1	0.1±0.2	2.0±0.6 =	1.3±1.8 =	2.8±2.1 =	1.2±1.7 =				
18:0/18:0	+	=	+	=	+	=	1.1±1.2 =	0.8±0.3 =	0.8±1.0 =		1.2±2.0 =	1.8±1.9 =	0.1±0.1 =	1.2±1.3 =	0.6±0.5 =	0.7±1.3 =	+	1.9±1.0	0.1±0.2 =	0.6±0.9 =	+	=	0.5±0.1 =	
SFA/SFA	9.8±0.6 =	9.6±2.5 =	9.7±1.5 =	8.9±1.8 =	8.7±2.1 =	10.7±3.5 =		10.1±2.5 =	15.2±4.1 >	8.0±2.1 =	9.7±5.8 =	8.1±3.2 =	8.0±5.0 =		9.2±2.8	13.3±4.3	8.8±0.0 =	4.3±2.9 =	9.5±2.5 =	6.6±0.4 =				
SFA/MUFA	72.6±1.2 >	64.7±0.5 =	67.9±3.3 =	67.6±5.0 =	70.7±8.9 =	71.2±9.4 =		69.0±9.1 =	74.4±13.4 =	65.8±1.4 >	59.0±3.1 =	53.8±4.1 =	44.9±6.8 <		64.4±2.9	52.4±3.1	72.7±3.4 =	60.8±8.0 =	72.3±8.1 =	41.8±2.3 =				

MUFA/SFA	0.6±0.4 = 0.8±1.1 = 1.4±1.7 = 1.3±0.6 = 0.3±0.5 = 0.4±0.4 =	+	=	0.2±0.3 = 0.8±0.2 = 1.6±2.7 = 0.9±0.9 = 0.4±0.7 =	1.3±0.5	1.0±1.2	0.7±1.0	=	2.0±2.8	=	0.7±1.0	=	0.3±0.4	=
SFA/PUFA	14.2±1.6 < 26.2±2.4 = 23.9±2.0 = 26.2±4.6 = 22.2±6.1 = 20.1±5.9 =	19.2±6.3	=	21.3±16.7 = 25.1±1.0 = 30.1±5.2 = 36.3±2.1 = 43.9±7.5 >	21.7±3.9	34.0±0.8	20.1±0.0	=	30.4±4.7	=	16.9±5.1	=	43.1±1.6	=
PUFA/SFA	0.4±0.7 < 1.7±0.4 = 1.4±1.7 = 0.6±0.4 = 1.2±1.3 = 1.6±0.7 >	1.2±0.4	>	0.1±0.1 < 1.9±1.3 = 1.6±0.8 = 1.0±0.9 = 0.2±0.3 <	2.3±2.4	1.1±1.5	0.8±1.1	=	+	=	0.4±0.6	=	2.3±3.2	=
MUFA/MUFA	2.3±1.0 = 1.0±0.9 = 0.7±0.5 = 0.7±0.7 < 2.5±0.7 = 1.9±1.6 =	0.6±1.0	=	0.3±0.5 = 0.5±0.5 = 1.0±0.6 = 0.8±1.4 = 0.2±0.4 =	1.0±1.4	0.3±0.5	0.6±0.3	=	0.6±0.9	=	0.1±0.2	=	0.1±0.2	=
MUFA/PUFA	- = - = - = - = - = - = - =	-	=	- = - = - = - = - = - =	-	-	-	<	-	<	-	<	-	<
PUFA/ MUFA	- = - = - = - = - = - = - =	-	=	- = - = - = - = - = - =	-	-	-	<	-	<	-	<	-	<
PUFA/PUFA	- = - = - = - = - = - = - =	-	=	- = - = - = - = - = - =	-	-	-	<	-	<	-	<	-	<

PHEG	The lower part of the blades of infected <i>U. pinnatifida</i> samples							The upper intact part of the blades of infected <i>U. pinnatifida</i> samples							The upper part of the blades of infected <i>U. pinnatifida</i> samples with endophyte	The lower part of the blades of uninfected <i>U. pinnatifida</i> samples		The upper part of the blades of uninfected <i>U. pinnatifida</i> samples																
	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Jun.	Nov.	S	Jun.	S	Nov.	S	Jun.	S										
20:5/20:5	0.4±0.1	<	2.6±0.9	=	2.0±0.4	>	+	<	0.4±0.3	<	2.0±0.7	=	1.9±0.2	>	1.0±0.4	>	0.5±0.2	=	0.2±0.1	<	1.6±0.3	2.8±1.0	0.8±0.0	>	0.2±0.2	=	0.7±0.1	=	0.3±0.1	=				
20:5/20:4	18.3±1.1	<	33.4±1.4	=	33.0±3.8	>	22.8±2.4	=	20.9±0.6	>	5.6±3.5	<	16.2±1.1	<	25.0±0.8	=	24.7±1.7	>	14.3±1.5	<	19.4±1.3	>	7.9±3.2	<	23.0±3.1	18.6±0.2	19.5±0.8	=	2.9±0.8	=	18.6±3.2	=	7.8±2.3	=
20:4/20:4	80.8±0.9	>	63.4±2.2	=	64.4±4.3	<	74.9±2.2	<	77.6±0.8	<	93.9±3.5	>	83.0±1.0	>	72.3±1.5	=	73.0±1.9	<	83.9±1.7	>	79.6±1.5	<	91.3±2.8	>	75.0±2.9	78.4±1.1	79.2±0.9	=	96.0±1.3	=	80.4±3.3	=	91.5±2.4	=
20:4/20:3	0.5±0.2	=	0.6±0.2	=	0.6±0.1	=	0.9±0.3	=	0.7±0.1	=	0.5±0.2	<	0.4±0.1	<	0.7±0.0	>	0.4±0.1	<	0.8±0.0	>	0.5±0.2	=	0.9±0.4	=	0.3±0.0	0.2±0.1	0.5±0.1	=	0.9±0.3	=	0.3±0.1	=	0.4±0.1	=
20:4/20:2	-	=	-	=	+	>	-	<	+	>	-	=	+	>	-	<	+	=	0.1±0.0	>	-	-	+	=	-	=	+	=	-	=	0.1±0.0	=	-	=

TAG	The lower part of the blades of infected <i>U. pinnatifida</i> samples							The upper intact part of the blades of infected <i>U. pinnatifida</i> samples							The upper part of the blades of infected <i>U. pinnatifida</i> samples with endophyte		The upper part of the blades of uninfected <i>U. pinnatifida</i> samples			The lower part of the blades of infected <i>U. pinnatifida</i> samples														
	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Jun.	Nov.	Jun.	S	Nov.	S	Jun.	S											
46:2	0.2±0.0	=	0.2±0.1	=	0.1±0.1	=	+	=	+	<	0.1±0.1	=	0.3±0.4	=	0.3±0.1	>	0.1±0.0	>	+	>	+	<	0.2±0.1	>	0.2±0.0	0.1±0.1	0.2±0.0	=	+	=	0.4±0.1	=	0.1±0.1	=
47:1	1.3±0.9	=	0.9±0.2	>	0.3±0.1	>	0.1±0.0	=	0.1±0.0	<	0.9±0.5	>	0.9±0.2	=	1.2±0.3	>	0.3±0.0	>	0.1±0.0	=	0.1±0.0	<	0.8±0.3	>	0.7±0.1	0.8±0.4	1.2±0.0	=	0.5±0.1	=	0.5±0.0	=	0.4±0.0	=
47:2	0.8±0.5	=	0.5±0.0	>	0.1±0.1	>	+	<	0.1±0.0	<	0.5±0.1	>	0.6±0.3	=	0.6±0.2	>	0.1±0.0	>	+	<	0.1±0.0	<	0.5±0.2	>	0.5±0.2	0.4±0.1	0.8±0.0	=	0.3±0.1	=	0.3±0.0	=	0.2±0.1	=
49:2	1.8±1.0	=	1.2±0.1	>	0.5±0.0	>	0.2±0.0	=	0.2±0.0	<	1.1±0.1	>	1.2±0.3	<	1.6±0.2	>	0.5±0.1	>	0.1±0.0	=	0.1±0.0	<	1.3±0.4	>	1.0±0.5	1.0±0.4	1.5±0.3	=	1.1±0.1	=	0.6±0.0	<	0.9±0.0	=
49:3	0.2±0.1	=	0.2±0.0	>	0.1±0.0	>	+	=	+	<	0.2±0.1	>	0.1±0.0	=	0.1±0.1	>	0.1±0.0	>	+	=	+	<	0.2±0.1	>	0.1±0.1	0.2±0.1	0.2±0.0	=	0.2±0.2	=	0.1±0.0	<	0.2±0.1	=
49:3	0.4±0.2	=	0.3±0.0	>	0.1±0.0	>	+	=	+	<	0.4±0.2	>	0.3±0.1	=	0.4±0.1	>	0.1±0.0	>	+	=	+	<	0.4±0.1	>	0.2±0.1	0.2±0.1	0.3±0.1	=	0.3±0.1	=	0.2±0.0	=	0.3±0.1	=
49:4	0.2±0.1	=	0.1±0.1	=	0.1±0.0	>	+	=	+	<	0.3±0.1	>	0.2±0.0	>	0.1±0.0	>	0.1±0.0	>	+	=	+	<	0.2±0.1	>	0.1±0.0	0.1±0.1	0.2±0.1	=	0.2±0.0	=	0.1±0.0	=	0.2±0.1	=
55:0	0.3±0.2	=	0.2±0.0	>	0.1±0.1	=	+	=	+	<	0.2±0.1	>	0.2±0.1	=	0.2±0.0	>	0.1±0.0	=	+	=	+	<	0.3±0.2	>	0.2±0.1	0.2±0.1	0.2±0.0	=	0.2±0.0	=	0.1±0.0	=	0.1±0.1	=
55:9	0.1±0.1	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	+	<	0.1±0.1	=	0.1±0.0	=	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.0	>	0.1±0.0	=	0.1±0.1	+	+	=	0.5±0.4	=	0.1±0.0	=	0.2±0.1	=
59:1	0.2±0.1	=	0.1±0.0	>	0.1±0.0	>	+	=	+	<	0.2±0.1	>	0.2±0.1	=	0.1±0.0	>	0.1±0.0	=	+	>	+	<	0.2±0.1	>	0.1±0.0	0.1±0.1	0.1±0.0	=	0.2±0.1	=	+	=	0.1±0.0	=
14:0/10:0/18:1	0.4±0.2	=	0.3±0.1	>	0.1±0.0	>	+	=	+	<	0.7±0.4	>	0.3±0.0	<	0.4±0.1	>	0.1±0.0	=	+	=	+	<	0.5±0.3	>	0.3±0.1	0.3±0.2	0.3±0.0	=	0.5±0.0	=	0.2±0.0	<	0.4±0.0	=
12:0/14:0/14:0	+	=	+	>	-	<	+	=	+	<	0.1±0.0	>	+	=	+	=	+	=	+	=	+	<	0.2±0.1	>	+	+	+	=	0.1±0.0	=	+	=	0.1±0.1	=
14:0/12:0/16:0	0.2±0.1	=	0.2±0.0	>	0.1±0.1	>	+	=	+	<	0.3±0.2	>	0.2±0.1	=	0.3±0.1	>	0.1±0.0	>	+	<	+	<	0.3±0.1	>	0.2±0.2	0.2±0.1	0.2±0.0	=	0.3±0.1	=	0.1±0.0	=	0.3±0.0	=
12:0/12:0/16:0	0.2±0.1	=	0.2±0.0	>	0.1±0.0	>	+	=	+	<	0.3±0.1	>	0.2±0.1	=	0.3±0.1	>	0.1±0.0	>	+	=	+	<	0.4±0.1	>	0.2±0.1	0.3±0.2	0.1±0.0	=	0.4±0.0	=	0.1±0.0	=	0.3±0.3	=
12:0/16:1/16:0	0.3±0.1	=	0.3±0.1	>	0.1±0.0	>	+	=	+	<	0.2±0.1	>	0.3±0.1	=	0.4±0.0	>	0.1±0.0	>	+	>	+	<	0.3±0.1	>	0.2±0.1	0.2±0.1	0.4±0.0	=	0.1±0.0	=	0.4±0.0	=	0.1±0.0	=
14:0/15:0/14:0	0.2±0.1	=	0.2±0.0	>	0.1±0.0	>	+	>	+	<	0.2±0.1	>	0.1±0.0	=	0.2±0.0	>	0.1±0.0	>	+	=	+	<	0.2±0.0	>	0.1±0.1	0.1±0.1	0.2±0.0	=	0.2±0.0	=	0.1±0.0	<	0.2±0.1	=

14:0/16:1/14:0	0.6±0.4	=	0.4±0.0	>	0.1±0.0	>	+	<	+	<	0.3±0.1	>	0.4±0.1=0.5±0.1>0.1±0.0>	+	=	+	<	0.4±0.2	>	0.3±0.1	0.3±0.2	0.5±0.0	0.4±0.2	=	0.1±0.0	=	0.2±0.0	=		
14:0/18:3/14:0	0.6±0.1	>	0.3±0.0	=	0.3±0.0	>	0.2±0.1	<	0.3±0.0	=	0.3±0.1	=	0.5±0.1>0.4±0.0>0.2±0.1>0.1±0.0<0.1±0.0<0.4±0.1	>						0.3±0.1	0.2±0.0	0.6±0.0	0.4±0.0	=	0.5±0.0	=	0.4±0.0	=		
14:0/16:0/14:0	0.5±0.2	=	0.4±0.0	>	0.1±0.0	>	+	=	0.1±0.0	<	0.5±0.1	>	0.4±0.1=0.5±0.2>0.1±0.0>	+	=	+	<	0.4±0.1	>	0.4±0.2	0.4±0.1	0.4±0.1	0.5±0.2	=	0.2±0.0	=	0.3±0.0	=		
15:0/14:0/16:0	0.4±0.3	=	0.4±0.0	>	0.1±0.0	>	+	=	+	<	0.3±0.2	>	0.3±0.1=0.5±0.1>0.1±0.0>	+	=	+	<	0.3±0.1	>	0.3±0.3	0.3±0.1	0.3±0.0	0.4±0.0	=	0.1±0.0	=	0.2±0.0	=		
16:0/14:0/16:0	0.8±0.5	=	0.8±0.0	>	0.2±0.0	>	0.1±0.0	=	0.1±0.0	<	0.8±0.2	>	0.7±0.2=0.9±0.3>0.2±0.0>0.1±0.0=0.1±0.0<0.9±0.2	>						0.7±0.5	0.8±0.3	0.7±0.0	0.8±0.1	=	0.3±0.0	=	0.7±0.2	=		
14:0/18:1/16:0	2.0±0.2	>	1.2±0.1	>	0.9±0.0	<	1.3±0.1	<	1.9±0.1	<	3.0±0.7	>	2.0±0.4=1.7±0.2>1.3±0.2<1.7±0.2>1.3±0.2<3.0±0.8	>						3.5±0.4	4.6±0.5	2.3±0.2	2.6±0.4	=	3.3±0.2	>	2.7±1.1	=		
16:2/14:0/18:3	1.1±0.2	>	0.7±0.2	=	0.8±0.1	=	0.7±0.2	=	0.9±0.1	>	0.7±0.1	=	1.0±0.1>0.8±0.1>0.5±0.0=0.4±0.1=0.4±0.1<0.6±0.1	>						0.9±0.1	0.5±0.1	1.4±0.2	0.5±0.0	=	1.2±0.0	=	0.6±0.2	=		
16:0/14:0/16:1	1.0±0.7	=	0.7±0.1	>	0.2±0.0	>	0.1±0.0	<	0.1±0.0	<	0.5±0.3	>	0.7±0.2=1.0±0.2>0.2±0.1>	+	=	+	<	0.7±0.4	>	0.5±0.3	0.5±0.3	0.9±0.1	0.7±0.2	=	0.3±0.0	=	0.5±0.2	=		
14:1/16:0/16:1	0.8±0.5	=	0.5±0.1	>	0.1±0.1	>	+	<	0.1±0.0	<	0.4±0.1	>	0.5±0.1=0.7±0.1>0.1±0.0>	+	=	+	<	0.4±0.2	>	0.4±0.1	0.3±0.2	0.6±0.1	0.3±0.1	=	0.3±0.0	=	0.4±0.1	=		
16:1/14:0/17:1	0.7±0.5	=	0.5±0.2	>	0.2±0.0	>	0.1±0.0	>	0.1±0.0	<	0.3±0.2	>	0.5±0.1<0.7±0.1>0.2±0.1>0.1±0.0>	+	<	0.5±0.3	>			0.3±0.2	0.3±0.2	0.5±0.1	0.4±0.1	=	0.2±0.0	=	0.5±0.0	=		
16:1/16:0/16:1	0.4±0.2	=	0.2±0.1	=	0.3±0.1	=	0.2±0.2	=	0.1±0.0	<	0.3±0.1	=	0.4±0.2=0.5±0.1=0.4±0.2=0.2±0.0>0.1±0.0<0.6±0.2	>						0.5±0.1	0.5±0.2	0.4±0.1	0.2±0.0	=	1.0±0.2	>	0.3±0.2	=		
14:0/18:4/16:1 + 16:4/14:0/18:1	+	=	+	<	0.1±0.0	>	+	=	+	<	0.1±0.0	>	0.1±0.0=0.1±0.0=0.1±0.0>	+	=	+	=	0.2±0.1	=	0.1±0.0	+	0.1±0.0	0.1±0.1	=	0.1±0.0	=	0.1±0.1	=		
16:2/14:0/18:3	0.1±0.0	=	0.1±0.1	=	0.1±0.0	>	+	=	+	<	0.2±0.1	>	0.1±0.0=0.1±0.0>0.1±0.0>	+	=	+	=	0.1±0.2	=	0.1±0.0	+	0.1±0.0	0.3±0.2	=	+	=	0.1±0.0	=		
14:0/22:0/18:0	0.7±0.4	=	0.3±0.0	>	0.1±0.0	>	+	=	+	<	0.2±0.1	>	0.6±0.2>0.3±0.1>0.1±0.0>	+	=	+	<	0.2±0.0	>	0.5±0.4	0.2±0.1	0.7±0.3	0.2±0.1	=	0.1±0.0	=	0.2±0.1	=		
18:1/14:0/18:1	0.9±0.0	>	0.5±0.1	>	0.4±0.0	<	0.8±0.2	<	1.1±0.0	>	0.8±0.2	=	0.6±0.1=0.6±0.1>0.4±0.1<0.6±0.0>0.4±0.1=0.6±0.3	=						1.1±0.1	1.3±0.1	0.8±0.0	0.6±0.0	=	0.8±0.0	>	0.7±0.3	=		
16:1/14:0/18:2	0.1±0.0	>	0.1±0.0	=	+	=	+	>	-	<	0.1±0.0	>	0.1±0.0=0.1±0.0>	+	=	+	=	+	<	0.1±0.1	>	0.1±0.1	+	0.1±0.0	0.1±0.1	=	0.1±0.0	=	0.1±0.0	=
16:3/14:0/18:2	+	=	+	=	+	>	+	<	+	<	0.1±0.1	>	0.1±0.0=0.1±0.0=	+	>	+	=	+	<	0.1±0.0	>	0.1±0.0	+	0.1±0.0	0.2±0.0	=	0.1±0.0	=	0.1±0.1	=
18:1/14:0/18:2	0.8±0.2	=	0.6±0.1	<	0.7±0.1	<	2.0±0.6	=	2.7±0.2	>	1.0±0.1	<	0.8±0.2=0.7±0.1=0.8±0.2<1.4±0.1=1.3±0.2>0.6±0.3	<						0.9±0.1	0.8±0.1	0.8±0.1	0.7±0.3	=	0.8±0.0	=	0.7±0.1	=		
18:2/14:0/18:2	0.8±0.4	=	0.8±0.1	<	1.1±0.1	<	2.1±0.5	=	2.4±0.1	>	0.9±0.0	<	1.2±0.3=0.9±0.2=1.2±0.2<1.6±0.1<2.0±0.2>0.7±0.2	<						0.9±0.1	0.6±0.1	1.0±0.2	0.7±0.1	=	1.2±0.0	=	0.7±0.2	=		
14:0/18:2/18:3	0.5±0.3	=	0.6±0.1	<	1.1±0.2	=	1.2±0.2	=	1.3±0.0	>	0.7±0.0	<	0.9±0.2=0.8±0.2=1.0±0.1=1.0±0.0<1.3±0.1>0.6±0.2	<						0.4±0.1	0.3±0.1	0.7±0.0	0.6±0.3	=	0.7±0.1	=	0.7±0.3	=		
18:3/14:0/18:3	0.3±0.1	<	0.5±0.1	<	0.8±0.2	>	0.3±0.1	=	0.4±0.0	>	0.1±0.0	<	0.6±0.1>0.5±0.1=0.5±0.1>0.2±0.0<0.3±0.0=0.2±0.1	=						0.3±0.1	0.1±0.0	0.5±0.1	0.2±0.0	>	0.6±0.1	=	0.2±0.2	=		
18:2/16:2/18:3 + 14:0/20:4/18:3	0.1±0.1	<	0.2±0.1	<	0.4±0.1	=	0.4±0.0	>	0.3±0.0	=	0.1±0.1	<	0.2±0.1=0.2±0.1<0.4±0.0=0.3±0.0<0.5±0.1>0.2±0.2	=						0.1±0.0	+	0.1±0.0	0.2±0.1	=	0.1±0.1	=	0.1±0.1	=		
14:0/18:1/18:4	0.2±0.1	=	0.2±0.0	<	0.4±0.0	=	0.3±0.1	=	0.3±0.1	>	0.1±0.0	<	0.5±0.3=0.3±0.1=0.4±0.0=0.4±0.0=0.3±0.0=0.3±0.1	<						0.3±0.1	0.2±0.1	0.3±0.1	0.2±0.1	=	0.7±0.1	=	0.4±0.0	=		
14:0/18:4/18:2	0.2±0.1	=	0.2±0.0	<	0.3±0.1	=	0.3±0.0	=	0.3±0.0	=	0.2±0.0	=	0.4±0.1=0.4±0.1=0.4±0.1=0.4±0.0>0.4±0.0=0.3±0.1	=						0.2±0.1	0.1±0.1	0.3±0.1	0.3±0.1	=	0.3±0.0	=	0.3±0.1	=		
14:0/18:3/18:4	0.3±0.1	=	0.3±0.0	<	0.5±0.1	>	0.2±0.1	=	0.2±0.0	<	0.3±0.1	>	0.5±0.1=0.5±0.1=0.4±0.0>0.3±0.0<0.3±0.0=0.3±0.2	=						0.4±0.1	0.2±0.0	0.4±0.0	0.3±0.1	=	0.7±0.0	=	0.5±0.2	=		
16:0/14:0/20:4	0.2±0.0	=	0.1±0.1	=	0.1±0.0	>	0.1±0.0	<	0.1±0.0	<	0.3±0.1	>	0.1±0.1=0.1±0.0=0.1±0.0=0.1±0.0=0.1±0.0<0.3±0.1	>						0.2±0.0	0.2±0.0	0.2±0.0	0.4±0.1	=	0.2±0.0	=	0.4±0.0	=		
18:2/16:0/18:4 + 18:2/14:0/20:4	0.5±0.3	<	1.0±0.1	=	1.1±0.1	>	1.0±0.1	=	1.0±0.1	<	1.4±0.2	>	0.6±0.1=0.8±0.1<1.1±0.1<1.3±0.1>1.0±0.1=1.2±0.4	=						0.6±0.0	0.5±0.3	0.7±0.1	1.4±0.6	=	0.7±0.1	=	1.4±0.4	=		
20:4/14:0/20:4	0.2±0.1	<	0.6±0.2	<	1.2±0.2	>	0.3±0.0	<	0.3±0.0	<	0.9±0.2	>	0.2±0.1<0.5±0.0<0.8±0.2>0.3±0.1=0.3±0.0<0.6±0.3	>						0.2±0.1	0.4±0.2	0.4±0.1	1.1±0.5	=	0.3±0.0	=	0.9±0.1	=		
16:0/14:0/20:5	0.1±0.0	=	0.1±0.0	<	0.1±0.0	=	0.1±0.0	=	0.1±0.0	<	0.1±0.0	>	0.1±0.1>+ =0.1±0.0=0.1±0.0=0.1±0.0<0.2±0.0	>						0.2±0.0	0.2±0.0	0.1±0.0	0.2±0.1	=	0.3±0.0	=	0.2±0.1	=		
16:1/14:0/20:5	0.1±0.1	=	0.1±0.0	<	0.4±0.1	>	0.2±0.1	=	0.1±0.0	=	0.1±0.0	=	0.2±0.1=0.3±0.1=0.3±0.1>0.2±0.1=0.2±0.0=0.2±0.1	=						0.2±0.0	0.1±0.1	0.2±0.0	0.1±0.1	=	0.7±0.1	>	0.1±0.1	=		
14:0/18:1/20:5	0.4±0.2	=	0.5±0.0	<	0.8±0.1	=	1.1±0.3	=	0.8±0.0	>	0.6±0.2	<	0.7±0.3=0.8±0.3=1.1±0.1=1.2±0.2=1.1±0.1>0.7±0.1	<						0.6±0.0	0.6±0.1	0.5±0.0	0.4±0.2	=	1.3±0.1	=	0.7±0.2	=		
14:0/18:2/20:5	0.9±0.5	<	2.2±0.3	<	3.1±0.3	>	2.3±0.1	=	2.2±0.1	>	1.2±0.1	<	1.3±0.3=1.9±0.5<2.5±0.1>1.7±0.1<2.2±0.1>1.4±0.4	=						1.2±0.3	0.9±0.3	1.2±0.0	1.2±0.3	=	1.9±0.1	=	1.5±0.0	=		
14:0/18:3/20:5 + 18:4/14:0/20:4	0.6±0.3	<	1.4±0.2	<	2.1±0.3	>	0.9±0.1	=	1.0±0.0	=	0.9±0.2	=	1.0±0.1=1.1±0.2=1.3±0.3>0.7±0.1<1.0±0.0=0.9±0.2	=						0.7±0.1	0.6±0.2	0.9±0.0	0.9±0.0	=	1.2±0.1	=	1.1±0.2	=		
18:4/14:0/20:5	0.5±0.2	=	0.3±0.0	<	0.5±0.1	>	0.3±0.0	<	0.4±0.0	=	0.4±0.2	=	0.8±0.2>0.5±0.1=0.5±0.1=0.5±0.1=0.5±0.0=0.5±0.1	=						0.4±0.1	0.3±0.1	0.7±0.0	0.3±0.0	=	1.1±0.0	=	0.7±0.1	=		
16:1/14:1/16:1 + 14:1/16:1/16:1	0.1±0.0	>	0.1±0.0	=	0.1±0.0	>	+	=	+	<	0.2±0.1	>	0.1±0.0=0.1±0.1>0.1±0.0>	+	>	+	<	0.2±0.0	>	0.1±0.1	0.1±0.0	0.1±0.0	0.1±0.0	=	0.1±0.0	=	0.2±0.1	=		
14:0/18:2/16:1 + 16:1/14:0/18:2	0.2±0.1	=	0.2±0.0	<	0.2±0.0	=	0.2±0.0	=	0.2±0.0	=	0.2±0.1	=	0.3±0.1=0.2±0.0=0.2±0.0=0.2±0.0=0.2±0.0=0.2±0.1	=						0.1±0.0	0.1±0.0	0.3±0.0	0.3±0.1	=	0.2±0.0	=	0.1±0.0	=		
16:0/15:0/16:0	0.5±0.3	=	0.6±0.0	>	0.1±0.0	>	0.1±0.0	=	+	<	0.5±0.3	>	0.5±0.2=0.6±0.2>0.1±0.0>	+	=	+	<	0.4±0.1	>	0.4±0.4	0.4±0.2	0.4±0.0	0.6±0.2	=	0.2±0.0	=</				

16:1/15:0/18:2	0.1±0.1 = + = + > + < + < 0.1±0.0 > + < 0.1±0.0 > + > + = + = 0.1±0.1 =	0.1±0.0 + 0.1±0.0 0.2±0.1 = + = 0.1±0.1 =
14:0/16:1/16:0	0.9±0.4 = 0.5±0.1 > 0.4±0.0 > 0.3±0.0 < 0.4±0.0 < 0.8±0.1 > 0.9±0.3 = 0.7±0.1 > 0.4±0.1 > 0.3±0.0 = 0.3±0.0 < 0.8±0.3 >	0.8±0.2 0.9±0.1 1.0±0.1 0.8±0.1 = 1.4±0.0 = 0.5±0.0 =
14:0/18:2/16:0	1.9±0.2 > 1.3±0.1 = 1.3±0.1 < 2.4±0.7 < 3.7±0.3 > 2.1±0.1 = 1.8±0.2 = 1.7±0.1 > 1.3±0.2 = 1.7±0.4 = 1.8±0.2 = 1.7±0.4 =	2.0±0.3 1.9±0.2 2.0±0.1 2.0±0.7 = 2.0±0.0 = 1.9±0.0 =
14:0/16:0/18:4	0.1±0.1 = 0.1±0.0 = 0.1±0.0 > + < 0.1±0.0 < 0.2±0.0 > 0.2±0.1 > 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.3±0.1 >	0.2±0.1 0.2±0.1 0.2±0.0 0.2±0.0 = 0.6±0.1 > 0.2±0.1 =
16:0/16:0/16:0	1.3±0.9 = 1.3±0.1 > 0.3±0.0 > 0.1±0.0 = 0.1±0.0 < 1.0±0.4 > 0.8±0.3 = 1.2±0.3 > 0.3±0.0 > 0.1±0.0 = 0.1±0.0 < 0.9±0.3 >	1.0±0.8 1.0±0.5 0.9±0.2 1.0±0.3 = 0.3±0.0 = 0.6±0.1 =
16:0/16:0/18:0	0.5±0.3 = 0.6±0.1 > 0.1±0.0 > + = + < 0.4±0.2 > 0.3±0.1 = 0.4±0.1 > 0.1±0.0 > + = + < 0.4±0.1 >	0.3±0.2 0.4±0.3 0.3±0.1 0.4±0.1 = 0.1±0.0 = 0.3±0.0 =
16:0/18:1/16:0	3.5±0.6 > 2.0±0.1 > 1.1±0.0 < 1.6±0.1 < 2.1±0.1 < 3.3±0.3 > 4.0±0.7 > 2.1±0.5 > 1.3±0.2 < 2.3±0.2 > 1.4±0.3 < 4.7±1.5 >	7.1±1.5 10.5±1.1 4.0±0.3 3.6±0.5 = 3.9±0.5 = 5.3±3.0 =
16:0/18:2/16:0	2.7±0.6 > 2.0±0.1 > 1.4±0.2 < 2.9±0.8 < 3.9±0.4 > 2.7±0.4 = 2.3±0.4 = 2.2±0.4 > 1.4±0.1 < 2.4±0.6 = 1.9±0.5 = 2.4±0.8 =	4.0±0.2 4.0±0.8 2.6±0.1 2.6±0.7 = 2.8±0.4 = 2.5±0.3 =
16:0/16:0/18:3	1.4±0.1 > 1.2±0.1 > 1.0±0.0 = 1.1±0.3 = 1.2±0.1 > 0.9±0.2 = 1.0±0.2 = 0.9±0.2 > 0.6±0.0 = 0.7±0.1 = 0.5±0.1 < 0.9±0.1 >	1.5±0.2 0.9±0.1 1.7±0.3 0.7±0.0 = 1.4±0.1 > 0.9±0.0 =
16:0/24:0/16:0	0.2±0.2 = 0.2±0.0 > 0.1±0.0 = + = + = 0.3±0.2 = 0.2±0.1 = 0.2±0.1 > + > + = + < 0.2±0.1 >	0.2±0.1 0.2±0.1 0.2±0.1 0.1±0.0 = 0.1±0.0 = 0.2±0.1 =
16:0/16:1/16:0	1.3±1.0 = 0.8±0.1 > 0.2±0.1 > 0.1±0.0 < 0.1±0.0 < 0.6±0.2 > 1.0±0.4 = 1.1±0.3 > 0.3±0.0 > 0.1±0.0 > + < 0.7±0.3 >	0.6±0.4 0.6±0.3 1.0±0.0 0.6±0.3 = 0.3±0.0 = 0.4±0.1 =
16:0/16:1/16:1	0.9±0.7 = 0.6±0.1 > 0.1±0.0 > - < 0.1±0.0 < 0.4±0.2 > 0.7±0.3 = 0.9±0.1 > 0.2±0.0 > - # - < 0.5±0.2 >	0.5±0.3 0.5±0.3 0.8±0.1 0.5±0.2 = 0.4±0.1 = 0.2±0.1 =
16:0/18:1/16:4	+ = + = 0.1±0.1 = 0.1±0.0 = + = 0.1±0.1 = 0.1±0.0 = + < 0.1±0.0 > 0.1±0.0 < 0.1±0.0 < 0.1±0.0 >	+ + + 0.1±0.0 = 0.1±0.0 = + =
18:0/16:0/18:0 + 16:0/18:0/18:0	0.2±0.1 = 0.3±0.0 > 0.1±0.0 > + = + < 0.3±0.2 > 0.2±0.0 = 0.2±0.1 > 0.1±0.0 > + = + < 0.2±0.1 >	0.2±0.1 0.2±0.1 0.2±0.0 0.2±0.0 = 0.1±0.0 < 0.2±0.0 =
16:0/18:1/18:0	1.7±0.0 > 0.9±0.1 > 0.5±0.1 = 0.4±0.0 < 0.7±0.0 < 1.8±0.2 > 1.5±0.1 > 0.9±0.3 > 0.6±0.0 = 0.7±0.1 = 0.5±0.2 < 1.8±0.5 >	2.3±0.2 5.1±0.6 1.5±0.1 1.6±0.1 = 1.5±0.2 = 2.1±0.7 =
17:1/16:0/18:1	0.4±0.3 = 0.3±0.1 > 0.1±0.0 = 0.1±0.0 < 0.1±0.0 < 0.4±0.2 > 0.3±0.1 = 0.5±0.1 > 0.1±0.0 > + = + < 0.5±0.2 >	0.3±0.2 0.4±0.3 0.4±0.2 0.6±0.3 = 0.2±0.0 = 0.4±0.2 =
18:1/16:0/18:1	2.9±0.3 > 2.2±0.1 > 1.2±0.2 = 1.6±0.5 = 2.1±0.1 = 2.2±0.4 = 2.1±0.3 = 1.6±0.3 > 1.2±0.0 = 1.3±0.1 > 0.9±0.3 < 2.3±0.6 >	6.2±0.9 5.3±0.3 2.5±0.4 1.9±0.4 = 3.0±0.3 = 2.3±1.6 =
18:1/16:0/18:2	2.4±0.2 = 2.3±0.5 > 1.5±0.3 < 3.0±1.0 = 3.6±0.2 > 2.3±0.8 = 2.0±0.5 = 1.6±0.3 = 1.5±0.1 < 2.3±0.2 = 1.9±0.5 = 1.8±0.7 =	4.2±0.5 2.8±0.3 2.0±0.1 2.1±0.3 = 2.4±0.1 = 1.7±0.5 =
18:1/16:0/20:4	0.6±0.3 = 0.3±0.1 = 0.3±0.1 < 0.7±0.1 < 1.0±0.0 = 0.8±0.4 = 0.6±0.1 > 0.3±0.0 < 0.5±0.0 < 0.8±0.0 > 0.7±0.1 > 0.4±0.2 <	0.6±0.1 0.6±0.1 0.6±0.1 0.7±0.1 = 0.7±0.0 = 0.7±0.1 =
16:1/16:0/18:2	0.2±0.1 = 0.1±0.0 = 0.1±0.0 = + > - < 0.1±0.0 = 0.1±0.1 = 0.2±0.0 > 0.1±0.0 = 0.1±0.0 > + < 0.2±0.0 >	0.1±0.0 0.1±0.1 0.2±0.0 0.2±0.1 = 0.1±0.0 = 0.1±0.0 =
17:1/16:0/18:2	0.1±0.0 = 0.1±0.0 = + = + = + = 0.1±0.1 = 0.1±0.1 = 0.1±0.1 = + = + = + < 0.1±0.0 >	0.1±0.1 0.1±0.1 0.1±0.1 0.2±0.0 = 0.1±0.0 = 0.1±0.0 =
16:1/16:0/18:3 + 16:3/16:0/18:1	0.3±0.0 = 0.2±0.0 = 0.3±0.1 = 0.2±0.1 = 0.2±0.0 = 0.4±0.2 = 0.2±0.0 = 0.2±0.0 = 0.2±0.0 < 0.3±0.0 > 0.2±0.0 < 0.3±0.0 <	0.2±0.1 0.2±0.0 0.4±0.0 0.6±0.3 = 0.2±0.1 = 0.4±0.0 >
18:3/16:0/18:3 + 18:2/16:1/18:3	0.7±0.3 < 1.1±0.0 < 1.7±0.2 > 0.9±0.1 = 0.9±0.1 > 0.5±0.2 < 0.9±0.1 = 0.8±0.2 < 1.1±0.2 > 0.6±0.0 < 0.8±0.0 > 0.5±0.1 <	0.7±0.1 0.3±0.1 1.3±0.2 0.5±0.1 = 1.0±0.2 = 0.5±0.0 =
16:4/16:0/18:4	0.1±0.1 = 0.2±0.0 > 0.1±0.0 > 0.1±0.0 = 0.1±0.0 < 0.3±0.1 > 0.2±0.2 = 0.2±0.1 > 0.1±0.0 > 0.1±0.0 < 0.1±0.0 < 0.2±0.1 >	0.1±0.0 0.1±0.0 0.2±0.0 0.4±0.4 = 0.3±0.0 = 0.2±0.0 =
18:1/16:0/18:4 + 16:0/16:1/20:4	0.4±0.2 = 0.4±0.0 = 0.4±0.0 = 0.4±0.2 = 0.4±0.0 < 1.0±0.1 > 0.6±0.2 = 0.6±0.2 < 0.9±0.1 < 1.4±0.2 > 0.7±0.1 = 0.7±0.1 <	0.7±0.1 0.7±0.1 0.6±0.0 0.9±0.0 = 0.8±0.1 = 0.8±0.0 =
16:0/16:0/20:4	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = + < 0.1±0.0 < 0.1±0.0 > 0.1±0.0 > 0.1±0.0 = + = + = + < 0.2±0.1 >	0.1±0.0 0.2±0.0 0.1±0.0 0.2±0.1 = 0.1±0.0 = 0.3±0.1 =
18:0/16:0/20:5	0.4±0.2 = 0.6±0.0 > 0.4±0.1 = 0.4±0.1 = 0.4±0.0 < 1.5±0.4 > 0.3±0.1 = 0.4±0.1 = 0.4±0.1 = 0.5±0.1 = 0.4±0.0 < 0.7±0.1 =	0.3±0.0 0.6±0.1 0.4±0.0 1.3±0.2 = 0.3±0.0 = 0.9±0.2 =
16:0/18:2/20:4	0.4±0.1 < 1.3±0.2 = 0.9±0.3 = 0.7±0.1 < 0.9±0.1 < 1.5±0.3 > 0.3±0.0 < 0.6±0.2 = 0.6±0.2 = 0.5±0.1 = 0.7±0.1 = 1.0±0.4 >	0.2±0.0 0.3±0.2 0.4±0.1 1.6±0.4 = 0.3±0.0 < 1.3±0.6 =
18:2/16:0/20:4	0.6±0.3 = 0.4±0.1 = 0.4±0.1 < 0.5±0.0 = 0.6±0.0 > 0.4±0.1 < 0.5±0.1 > 0.3±0.0 < 0.6±0.1 < 0.7±0.1 > 0.5±0.1 = 0.4±0.1 <	0.5±0.1 0.4±0.1 0.7±0.2 0.3±0.0 = 0.6±0.0 = 0.5±0.1 =
18:3/16:0/20:4	0.2±0.1 = 0.3±0.1 = 0.3±0.0 = 0.3±0.1 = 0.2±0.0 = 0.2±0.1 = 0.3±0.1 = 0.2±0.1 = 0.2±0.1 = 0.3±0.1 = 0.2±0.0 > 0.2±0.0 <	0.2±0.1 0.2±0.1 0.4±0.0 0.3±0.0 = 0.3±0.0 = 0.4±0.0 >
20:4/16:0/20:4	0.2±0.1 = 0.3±0.3 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 < 0.9±0.4 > 0.2±0.0 = 0.1±0.1 = 0.1±0.0 < 0.2±0.1 = 0.2±0.0 < 0.8±0.2 >	0.1±0.0 0.4±0.1 0.2±0.0 1.5±0.9 = 0.2±0.0 = 1.2±0.1 =
16:0/16:0/20:5	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.1±0.1 > 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 >	0.2±0.1 0.3±0.0 0.1±0.0 0.2±0.1 = 0.3±0.0 > 0.2±0.0 =
16:0/18:1/20:5	0.8±0.4 < 1.4±0.1 < 1.9±0.2 = 2.5±0.9 > 1.4±0.0 = 1.5±0.4 = 1.0±0.4 = 1.4±0.4 < 2.7±0.6 < 3.4±0.1 > 2.2±0.2 > 1.3±0.3 <	1.6±0.2 1.9±0.1 0.9±0.0 0.9±0.1 = 1.6±0.0 = 1.4±0.7 =
16:0/18:2/20:5	1.2±0.6 < 3.5±0.3 < 5.5±0.5 = 5.1±0.1 > 3.8±0.2 > 1.9±0.5 < 1.3±0.3 < 2.3±0.3 < 3.8±0.4 = 3.9±0.4 = 3.9±0.3 > 1.6±0.4 <	1.5±0.2 1.3±0.3 1.5±0.1 1.6±0.2 = 1.9±0.1 = 2.0±0.3 =
18:3/16:0/20:5	0.9±0.5 < 1.6±0.2 < 3.0±0.4 > 1.8±0.2 > 1.5±0.1 > 0.7±0.2 < 1.0±0.1 = 1.0±0.2 < 1.4±0.2 = 1.3±0.2 = 1.4±0.1 > 0.8±0.2 <	0.8±0.2 0.6±0.2 1.3±0.2 0.9±0.2 = 1.5±0.0 > 1.1±0.2 =
18:4/16:0/20:5	1.0±0.7 = 0.7±0.1 < 1.1±0.1 > 0.9±0.2 < 1.2±0.1 = 1.2±0.2 > 1.2±0.1 > 0.7±0.1 < 1.1±0.2 = 1.1±0.0 > 1.0±0.0 < 1.1±0.1 =	1.2±0.4 1.0±0.2 1.6±0.0 1.1±0.1 = 2.1±0.2 > 1.3±0.0 >
20:4/16:0/20:5	0.5±0.3 = 0.3±0.0 = 0.3±0.1 = 0.2±0.1 < 0.4±0.1 = 0.4±0.1 > 0.7±0.0 > 0.2±0.0 < 0.3±0.0 < 0.5±0.0 = 0.5±0.0 < 0.6±0.1 >	0.5±0.2 0.7±0.1 0.4±0.1 0.6±0.0 = 0.8±0.0 > 0.8±0.1 =
20:5/16:0/20:5	0.1±0.0 < 0.2±0.0 < 0.3±0.0 > 0.1±0.1 = 0.1±0.0 = 0.1±0.1 = 0.1±0.1 = 0.2±0.1 = 0.3±0.0 > 0.2±0.0 < 0.2±0.0 = 0.3±0.2 =	0.3±0.1 0.3±0.1 0.1±0.1 0.4±0.1 = 0.4±0.1 > 0.3±0.0 =
16:0/26:0/16:1 + 16:0/24:0/18:1	0.3±0.2 = 0.1±0.0 > 0.1±0.0 = + = + = 0.2±0.2 = 0.2±0.1 = 0.2±0.0 > 0.1±0.0 > + = + < 0.3±0.2 >	0.1±0.1 0.1±0.1 0.2±0.0 0.2±0.1 = 0.1±0.0 = 0.2±0.1 =
14:0/16:1/16:1	0.7±0.1 > 0.3±0.1 = 0.4±0.0 = 0.5±0.2 < 1.0±0.1 > 0.7±0.0 > 0.7±0.1 = 0.7±0.0 > 0.4±0.0 = 0.3±0.0 < 0.4±0.0 < 0.6±0.1 >	0.5±0.1 0.4±0.1 0.7±0.2 0.7±0.2 = 0.6±0.0 = 0.7±0.1 =

16:1/16:1/16:1	0.1±0.0 = 0.1±0.0 = 0.1±0.1 = 0.1±0.1 = + < 0.1±0.0 =	0.1±0.1 = 0.2±0.0 = 0.1±0.1 = 0.1±0.0 > + < 0.2±0.1 =	0.1±0.1	0.1±0.1	0.1±0.0	0.1±0.0 = 0.3±0.0 > 0.1±0.0 =
16:1/18:2/16:1	+ = + = + = + > + = + =	+ = + = + = + = + < 0.1±0.0 >	+	+	+	0.1±0.1 = + = 0.1±0.0 =
18:2/16:0/20:0	0.5±0.0 = 0.2±0.1 = 0.2±0.1 < 0.4±0.1 < 0.6±0.1 = 0.5±0.1 >	0.4±0.1 = 0.3±0.0 > 0.2±0.1 < 0.3±0.0 = 0.4±0.1 = 0.4±0.1 =	0.5±0.0	-	0.4±0.0	0.9±0.3 = 0.2±0.0 = 0.4±0.2 =
16:1/17:0/18:1	0.4±0.2 = 0.3±0.1 > + = + < 0.1±0.0 < 0.3±0.1 >	0.2±0.1 = 0.3±0.1 > 0.1±0.0 > + = + < 0.2±0.1 =	0.3±0.1	0.2±0.1	0.3±0.2	0.2±0.0 = 0.2±0.1 = 0.2±0.1 =
18:1/16:1/18:2	0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 = 0.2±0.0 = 0.2±0.1 =	0.1±0.0 = 0.1±0.0 > 0.1±0.0 < 0.1±0.0 = 0.1±0.0 = 0.1±0.0 <	0.2±0.0	0.1±0.0	0.1±0.1	0.1±0.1 = 0.1±0.0 = 0.1±0.0 =
18:2/16:1/18:2	0.1±0.1 = 0.1±0.0 = 0.1±0.1 < 0.3±0.1 > 0.2±0.0 > 0.1±0.0 <	0.1±0.0 < 0.1±0.0 = 0.1±0.0 < 0.2±0.0 = 0.2±0.0 > 0.1±0.0 <	+	0.1±0.0	0.1±0.0	0.1±0.0 = 0.1±0.0 = 0.1±0.1 =
16:1/16:1/20:5	0.1±0.1 > - < 0.1±0.0 = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 =	0.2±0.1 > - < 0.2±0.1 > 0.1±0.0 = 0.1±0.0 < 0.2±0.1 >	0.1±0.0	0.1±0.0	0.1±0.1	0.2±0.1 = 0.3±0.0 = 0.1±0.0 =
16:2/16:1/20:5	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.1 > 0.1±0.0 = 0.1±0.1 =	0.1±0.0 < 0.1±0.0 = 0.2±0.0 = 0.1±0.1 < 0.2±0.0 > 0.1±0.1 =	0.1±0.0	+	0.1±0.0	0.2±0.1 = 0.1±0.0 = 0.1±0.1 =
18:2/16:1/20:5 + 18:3/18:1/18:4	0.2±0.1 < 0.4±0.1 < 0.5±0.0 < 0.8±0.2 > 0.4±0.0 = 0.3±0.1 <	0.5±0.1 = 0.5±0.1 < 0.7±0.1 = 0.9±0.2 > 0.7±0.1 > 0.2±0.1 <	0.5±0.1	0.2±0.1	0.3±0.0	0.4±0.1 = 0.5±0.1 = 0.2±0.1 =
18:3/16:1/20:5	0.1±0.0 < 0.4±0.0 < 0.5±0.1 = 0.6±0.1 > 0.3±0.1 > 0.1±0.1 <	0.1±0.1 < 0.3±0.0 < 0.4±0.0 < 0.4±0.0 = 0.5±0.1 > 0.1±0.0 <	0.1±0.0	0.1±0.0	0.1±0.0	0.2±0.1 = 0.2±0.0 = 0.1±0.0 =
18:4/16:1/20:5	0.1±0.1 < 0.2±0.0 < 0.3±0.1 = 0.4±0.1 = 0.2±0.0 > 0.1±0.0 <	0.2±0.0 < 0.2±0.0 = 0.3±0.1 = 0.3±0.0 < 0.4±0.1 > 0.1±0.0 <	0.1±0.0	+	0.1±0.0	0.1±0.1 = 0.3±0.0 > 0.2±0.0 >
16:1/16:2/18:2	+ = + < + = + = + = + = + =	+ = + = + = + = + = + < 0.1±0.0 >	+	+	+	0.1±0.1 = + = + <
18:2/16:2/20:5	0.1±0.0 = 0.2±0.1 = 0.2±0.0 > 0.1±0.0 = 0.1±0.0 = 0.1±0.1 =	0.1±0.0 = 0.1±0.1 = 0.2±0.0 = 0.1±0.0 = 0.1±0.0 = 0.2±0.1 =	0.1±0.0	+	0.1±0.0	0.1±0.0 = 0.1±0.0 = 0.1±0.0 =
14:0/18:2/16:3	0.1±0.0 = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.2±0.1 =	0.2±0.1 = 0.1±0.0 = 0.1±0.0 > 0.1±0.0 = 0.1±0.0 < 0.2±0.1 >	0.2±0.0	0.1±0.0	0.1±0.0	0.3±0.0 = 0.4±0.0 > 0.1±0.1 =
16:3/18:2/20:5	0.1±0.0 = 0.1±0.0 = 0.1±0.1 = 0.1±0.0 > + < 0.1±0.0 >	0.1±0.0 = 0.1±0.0 = 0.1±0.0 > 0.1±0.0 = 0.1±0.0 < 0.1±0.1 >	+	+	0.1±0.0	0.1±0.0 = + < 0.1±0.0 =
16:1/24:0/17:0	0.2±0.2 = 0.2±0.0 > 0.1±0.0 > + = + = 0.2±0.2 =	0.2±0.1 = 0.2±0.0 > 0.1±0.0 > + = + < 0.2±0.1 >	0.2±0.1	0.2±0.1	0.2±0.0	0.2±0.1 = 0.1±0.0 = 0.3±0.1 =
18:1/17:0/18:2	0.3±0.2 = 0.2±0.0 > 0.1±0.0 > + < 0.1±0.0 < 0.4±0.1 >	0.3±0.1 = 0.2±0.1 > 0.1±0.0 > + = + < 0.3±0.1 >	0.2±0.0	0.2±0.0	0.2±0.0	0.3±0.1 = 0.1±0.0 = 0.1±0.0 =
18:2/17:0/18:2	0.1±0.1 = 0.1±0.0 > 0.1±0.0 > + = + < 0.3±0.1 >	0.2±0.1 = 0.1±0.0 > 0.1±0.0 > + = + < 0.3±0.2 >	0.1±0.0	0.1±0.1	0.1±0.0	0.3±0.2 = 0.1±0.0 = 0.2±0.1 =
16:1/17:1/18:1	0.5±0.3 = 0.4±0.1 > 0.1±0.0 > 0.1±0.0 < 0.1±0.0 < 0.4±0.1 >	0.3±0.1 = 0.4±0.1 > 0.1±0.0 > 0.1±0.0 = 0.1±0.0 < 0.4±0.2 >	0.3±0.1	0.2±0.1	0.4±0.1	0.2±0.0 = 0.1±0.0 = 0.1±0.1 =
16:0/18:0/18:2	1.2±0.2 > 0.6±0.2 > 0.3±0.1 < 0.6±0.2 < 1.1±0.2 = 1.1±0.2 >	0.9±0.2 = 0.7±0.2 > 0.4±0.0 = 0.6±0.2 = 0.7±0.2 = 0.9±0.2 =	1.1±0.1	1.6±0.4	0.8±0.0	1.0±0.2 = 0.9±0.2 = 1.2±0.2 =
16:0/18:0/18:3	0.7±0.2 > 0.3±0.0 > 0.2±0.0 = 0.3±0.1 < 0.4±0.1 > 0.3±0.1 =	0.5±0.0 > 0.3±0.1 > 0.2±0.0 = 0.2±0.0 = 0.2±0.1 < 0.3±0.1 >	0.5±0.1	0.4±0.1	0.7±0.0	0.3±0.0 = 0.6±0.0 > 0.4±0.1 =
16:0/24:0/18:0	0.3±0.1 > 0.1±0.0 = 0.1±0.1 > + = + < 0.3±0.1 >	0.2±0.1 = 0.2±0.0 > 0.1±0.0 > + > + = 0.3±0.3 =	0.2±0.0	0.2±0.1	0.1±0.0	0.3±0.2 = 0.1±0.0 = 0.1±0.0 =
18:0/16:1/24:0	0.1±0.0 = 0.1±0.0 = 0.1±0.0 > + = + < 0.1±0.0 >	+ = + > + > + = + < 0.1±0.0 >	+	0.1±0.1	0.1±0.1	1.0±1.3 = + = 0.1±0.0 =
18:0/18:1/18:0 + 16:0/20:0/18:1	0.8±0.1 > 0.5±0.1 > 0.2±0.1 = 0.3±0.0 < 0.4±0.0 < 1.0±0.2 >	0.7±0.0 > 0.5±0.1 > 0.3±0.0 = 0.4±0.0 = 0.3±0.1 < 0.7±0.0 >	0.6±0.2	1.0±0.1	0.6±0.0	0.8±0.1 = 0.4±0.1 = 0.6±0.1 =
18:1/18:0/18:2	0.7±0.2 = 0.7±0.0 > 0.2±0.1 = 0.3±0.0 < 0.5±0.1 = 0.5±0.1 >	0.5±0.1 = 0.6±0.2 > 0.3±0.0 < 0.4±0.0 = 0.4±0.1 = 0.4±0.1 =	0.5±0.2	0.7±0.2	0.5±0.1	0.6±0.1 = 0.5±0.1 = 0.4±0.0 =
18:0/18:1/20:4	0.1±0.0 = 0.1±0.0 = + = + < 0.1±0.0 < 0.1±0.0 >	0.1±0.0 > + = + < 0.1±0.0 = 0.1±0.0 = 0.1±0.0 =	+	0.1±0.0	0.1±0.0	0.1±0.0 = + = 0.1±0.0 >
18:0/18:1/20:5	0.2±0.1 = 0.2±0.0 = 0.1±0.0 < 0.3±0.1 = 0.3±0.0 = 0.2±0.1 =	0.2±0.1 > 0.1±0.0 < 0.3±0.1 < 0.4±0.1 = 0.3±0.1 = 0.2±0.1 <	0.2±0.0	0.3±0.0	0.2±0.0	0.1±0.0 = 0.2±0.0 = 0.3±0.1 =
18:0/18:2/20:5	0.3±0.2 = 0.3±0.1 = 0.2±0.0 < 0.3±0.0 < 0.4±0.0 > 0.3±0.1 =	0.3±0.1 > 0.2±0.0 < 0.3±0.0 = 0.4±0.1 = 0.4±0.1 = 0.3±0.1 =	0.2±0.0	0.2±0.0	0.2±0.0	0.4±0.2 = 0.3±0.0 = 0.4±0.2 =
18:3/18:0/20:5	0.2±0.2 = 0.1±0.1 = 0.2±0.0 > 0.2±0.0 < 0.2±0.0 > 0.2±0.0 =	0.2±0.0 > 0.1±0.0 < 0.2±0.0 > 0.2±0.0 = 0.2±0.0 < 0.3±0.0 >	0.2±0.0	0.1±0.0	0.3±0.0	0.1±0.0 = 0.3±0.0 = 0.3±0.1 =
20:4/18:1/20:4 + 20:4/18:0/20:5	0.1±0.0 = 0.1±0.1 = 0.1±0.0 > + < 0.1±0.0 < 0.3±0.1 >	0.1±0.0 > + = + = 0.1±0.0 = 0.1±0.0 < 0.2±0.1 >	+	0.1±0.0	+	0.3±0.1 = + = 0.2±0.1 =
18:1/16:1/18:1	0.1±0.0 > 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 >	0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 > 0.1±0.0 = 0.1±0.1 =	0.2±0.0	0.2±0.1	0.1±0.0	0.1±0.0 = 0.1±0.0 = 0.1±0.0 =
16:0/18:2/18:3	1.2±0.6 = 1.4±0.1 < 2.3±0.3 = 2.6±0.4 = 2.7±0.1 > 1.5±0.5 <	1.3±0.2 = 1.2±0.2 < 1.9±0.2 = 2.1±0.1 = 2.1±0.2 > 0.9±0.2 <	1.3±0.2	0.7±0.1	1.4±0.2	1.4±0.3 = 1.5±0.1 = 1.2±0.2 =
16:1/22:0/18:1	0.2±0.1 = 0.1±0.0 > + = + < 0.1±0.0 < 0.2±0.1 >	0.1±0.0 = 0.1±0.0 > + = + = + < 0.2±0.1 >	+	0.1±0.0	0.1±0.0	0.2±0.0 = + < 0.1±0.1 =
16:4/18:1/18:4	0.1±0.0 = 0.1±0.0 = 0.1±0.0 > + = + < 0.1±0.0 =	0.1±0.0 = 0.1±0.0 = 0.1±0.0 > + < 0.1±0.0 = 0.1±0.1 =	+	+	0.1±0.0	0.1±0.0 = 0.1±0.1 = 0.2±0.0 =
18:1/18:0/18:1	1.3±0.4 > 0.6±0.1 > 0.3±0.1 = 0.2±0.0 < 0.3±0.0 < 0.6±0.1 >	0.7±0.1 = 0.5±0.2 > 0.3±0.1 > 0.2±0.0 = 0.2±0.1 < 0.6±0.1 >	1.0±0.2	1.5±0.2	0.8±0.1	0.4±0.1 = 0.5±0.0 = 0.5±0.3 =
18:0/20:0/18:1 + 18:1/14:0/24:0	0.4±0.1 > 0.2±0.1 > 0.1±0.0 > 0.1±0.0 < 0.1±0.0 < 0.2±0.1 >	0.3±0.1 = 0.2±0.0 > 0.1±0.0 > 0.1±0.0 > + < 0.3±0.1 >	0.2±0.1	0.3±0.1	0.3±0.0	0.3±0.3 = 0.1±0.0 = 0.2±0.1 =
18:1/18:1/18:1	4.4±1.2 = 2.5±1.3 > 0.9±0.2 = 0.6±0.2 = 2.0±1.9 = 0.8±0.0 =	2.8±1.0 > 0.7±0.2 = 0.7±0.2 > 0.4±0.1 > 0.3±0.1 < 0.7±0.2 >	2.8±0.8	1.1±0.3	2.7±0.9	0.6±0.2 = 1.3±0.0 = 0.6±0.2 =
18:1/18:2/18:1	2.7±0.7 = 1.9±0.8 > 0.8±0.2 = 0.7±0.2 < 0.9±0.0 > 0.7±0.1 =	1.6±0.6 > 0.8±0.2 = 0.8±0.3 = 0.7±0.1 = 0.6±0.2 = 0.7±0.2 =	1.8±0.4	0.8±0.2	1.6±0.4	0.7±0.3 = 0.9±0.0 = 0.5±0.1 =
18:1/20:0/18:1	0.3±0.0 > 0.2±0.1 > 0.1±0.0 = 0.1±0.0 < 0.1±0.0 = 0.1±0.0 =	0.2±0.0 > 0.2±0.0 > 0.1±0.0 > 0.1±0.0 = 0.1±0.0 = 0.1±0.1 =	0.2±0.1	0.2±0.1	0.2±0.0	0.5±0.4 = 0.1±0.0 < 0.2±0.1 =
18:1/20:3/18:1	0.2±0.1 > 0.1±0.0 > 0.1±0.0 < 0.1±0.0 < 0.2±0.0 > 0.1±0.0 =	0.1±0.0 = 0.1±0.0 < 0.1±0.0 < 0.1±0.0 = 0.1±0.0 = 0.3±0.2 =	0.2±0.0	0.2±0.0	0.2±0.0	0.2±0.0 = 0.1±0.0 = 0.1±0.0 =

18:2/18:2/18:2 +	1.6±0.2 = 1.5±0.2 > 1.1±0.2 = 1.7±0.5 = 1.6±0.1 > 0.7±0.3 <	1.6±0.6= 1.1±0.3 = 1.4±0.5= 1.5±0.2 = 1.5±0.1 > 0.8±0.4 <	1.3±0.2	0.7±0.2	1.4±0.1	0.7±0.0 =	0.9±0.1 =	0.3±0.0 =
18:2/18:1/18:3	0.3±0.1 = 0.2±0.1 = 0.2±0.1 = 0.3±0.1 = 0.3±0.1 = 0.3±0.1 =	0.3±0.2= 0.3±0.1 < 0.5±0.1= 0.8±0.3 > 0.5±0.1 > 0.1±0.0 <	0.2±0.1	0.1±0.1	0.3±0.1	0.3±0.0 =	0.2±0.1 =	0.2±0.0 =
18:2/18:1/18:4	0.2±0.1 = 0.2±0.1 = 0.1±0.0 < 0.2±0.0 = 0.3±0.0 = 0.3±0.1 =	0.2±0.0 > 0.1±0.0 = 0.1±0.0 < 0.2±0.0 > 0.2±0.0 = 0.2±0.0 <	0.1±0.0	0.2±0.0	0.2±0.0	0.2±0.0 =	0.1±0.0 =	0.2±0.0 =
18:1/18:1/20:4	0.1±0.1 < 0.4±0.1 = 0.3±0.1 = 0.3±0.1 = 0.3±0.0 < 0.8±0.4 >	0.2±0.0 = 0.2±0.0 = 0.2±0.0 < 0.5±0.1 = 0.5±0.1 = 1.0±0.5 =	0.1±0.0	0.4±0.3	0.1±0.0	1.1±0.4 =	0.2±0.0 =	1.0±0.4 =
20:4/18:1/20:5	0.4±0.2 < 0.7±0.1 = 0.6±0.2 < 1.3±0.1 > 1.0±0.0 > 0.6±0.3 <	0.3±0.1 = 0.4±0.1 < 0.8±0.3 < 1.2±0.1 > 0.9±0.1 > 0.3±0.0 <	0.4±0.0	0.5±0.1	0.4±0.0	0.5±0.1 =	0.3±0.0 =	0.4±0.1 =
18:1/18:1/20:5	0.6±0.3 < 1.0±0.1 = 0.9±0.1 < 2.4±0.2 > 1.7±0.0 > 1.1±0.1 <	0.6±0.2 < 1.0±0.2 < 1.6±0.4 < 2.5±0.2 = 2.2±0.1 > 0.7±0.2 <	0.4±0.0	0.5±0.2	0.6±0.1	0.9±0.3 =	0.4±0.1 =	0.8±0.0 =
18:2/18:1/20:5	0.3±0.2 < 0.6±0.1 = 0.7±0.2 < 1.4±0.5 > 0.3±0.1 = 0.4±0.2 <	0.5±0.2 = 0.5±0.2 < 1.2±0.3 = 1.3±0.5 > 0.5±0.2 > 0.1±0.1 <	0.3±0.0	0.3±0.0	0.5±0.1	0.4±0.1 =	0.6±0.0 =	0.3±0.1 =
18:3/18:1/20:5	0.6±0.4 = 0.4±0.1 = 0.5±0.0 < 0.7±0.1 = 0.7±0.1 = 0.5±0.2 =	0.5±0.1 = 0.5±0.1 < 0.7±0.1 < 1.0±0.1 > 0.7±0.1 > 0.4±0.1 <	0.4±0.1	0.4±0.1	0.6±0.1	0.7±0.2 =	0.5±0.0 =	0.6±0.3 =
18:4/18:1/20:5	0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.1±0.0 < 0.1±0.0 = 0.2±0.0 >	0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.1±0.0 = 0.1±0.0 = 0.1±0.1 =	+	0.1±0.0	0.1±0.0	0.3±0.0 >	+	= 0.2±0.2 =
20:0/18:1/20:5	0.1±0.1 < 0.2±0.0 < 0.3±0.1 = 0.6±0.3 > 0.2±0.0 = 0.3±0.1 =	0.2±0.1 = 0.3±0.1 < 0.5±0.1 = 0.6±0.1 = 0.6±0.2 > 0.3±0.0 <	0.2±0.0	0.2±0.0	0.1±0.0	0.1±0.0 =	0.2±0.0 =	0.3±0.1 =
20:5/18:1/20:5	2.5±0.5 = 2.7±0.4 = 2.5±0.3 < 4.0±0.8 = 4.4±0.2 > 3.1±1.0 =	2.4±0.3 = 2.2±0.2 < 2.8±0.2 < 3.8±0.2 = 3.2±0.5 > 1.9±0.6 <	3.4±0.4	2.4±0.2	2.7±0.1	2.7±0.4 =	2.7±0.1 =	2.0±0.4 =
18:2/16:0/18:2	0.1±0.0 < 0.1±0.0 < 0.3±0.0 > 0.2±0.0 > 0.1±0.0 = 0.1±0.1 =	0.1±0.0 < 0.2±0.0 = 0.2±0.1 > 0.2±0.0 = 0.2±0.0 > 0.1±0.1 <	+	+	0.1±0.1	0.1±0.0 =	0.1±0.0 =	0.1±0.1 =
16:3/18:2/18:3	+	0.1±0.0 < 0.3±0.1 > 0.1±0.0 > 0.1±0.0 = 0.1±0.0 =	+	+	0.1±0.0	0.1±0.0 <	0.1±0.0 =	0.1±0.0 =
16:4/18:2/18:3	0.9±0.2 > 0.5±0.1 > 0.4±0.0 < 0.6±0.1 < 0.9±0.1 = 0.9±0.3 =	0.8±0.1 > 0.5±0.1 = 0.5±0.1 < 0.7±0.1 = 0.7±0.2 = 0.6±0.0 =	0.7±0.0	0.9±0.1	0.8±0.1	0.8±0.0 =	0.6±0.0 =	0.8±0.0 >
18:2/18:0/18:2	2.9±0.6 = 2.7±0.7 > 2.0±0.1 = 2.6±0.6 = 2.7±0.1 > 1.5±0.4 <	2.0±0.4 > 1.5±0.2 < 2.1±0.4 = 2.1±0.1 = 1.7±0.3 = 1.5±0.3 <	2.5±0.3	1.4±0.1	2.2±0.4	1.3±0.1 =	1.6±0.1 =	1.3±0.1 =
18:2/18:1/18:2	0.4±0.1 > 0.3±0.1 > 0.1±0.0 = 0.1±0.0 < 0.2±0.0 < 0.3±0.1 >	0.3±0.0 > 0.2±0.0 > 0.1±0.0 < 0.2±0.0 = 0.2±0.0 = 0.2±0.1 =	0.2±0.0	0.2±0.1	0.3±0.1	0.6±0.2 =	0.1±0.0 <	0.2±0.1 =
18:1/20:0/18:2 +	0.2±0.1 > 0.1±0.0 = 0.1±0.0 < 0.3±0.1 < 0.4±0.0 > 0.3±0.0 =	0.1±0.0 = 0.1±0.0 = 0.2±0.0 < 0.2±0.0 = 0.2±0.0 = 0.2±0.1 =	0.2±0.0	0.2±0.0	0.2±0.0	0.3±0.0 =	0.2±0.0 =	0.2±0.1 =
18:1/18:2/20:3	0.3±0.0 > 0.1±0.0 = 0.1±0.0 < 0.3±0.1 < 0.4±0.0 > 0.3±0.0 =	0.3±0.0 > 0.2±0.0 = 0.2±0.0 = 0.2±0.0 < 0.3±0.0 > 0.2±0.0 <	0.1±0.1	0.2±0.0	0.2±0.1	0.3±0.1 =	0.1±0.0 <	0.2±0.0 =
18:2/18:1/20:1 +	0.4±0.2 = 0.2±0.0 < 0.2±0.0 < 0.3±0.1 = 0.4±0.0 > 0.4±0.0 =	0.4±0.1 > 0.2±0.0 < 0.3±0.1 = 0.3±0.1 < 0.5±0.1 > 0.3±0.1 =	0.3±0.0	0.2±0.0	0.3±0.0	0.3±0.1 =	0.5±0.0 =	0.3±0.0 =
18:2/20:4/18:2	0.8±0.3 = 0.9±0.3 = 1.2±0.2 = 1.6±0.4 > 0.9±0.0 > 0.6±0.2 <	1.0±0.1 > 0.8±0.1 < 1.3±0.1 = 1.3±0.1 = 1.4±0.1 > 0.6±0.2 <	0.7±0.1	0.3±0.0	1.0±0.1	0.6±0.1 =	0.8±0.1 =	0.6±0.2 =
18:2/18:3/18:2	0.2±0.1 < 0.4±0.1 = 0.4±0.1 > 0.1±0.1 = 0.1±0.0 = 0.1±0.1 =	0.3±0.0 = 0.3±0.1 = 0.3±0.0 > 0.1±0.0 = 0.1±0.1 = 0.2±0.0 >	0.1±0.0	+	0.2±0.0	0.2±0.0 =	0.2±0.1 =	0.1±0.1 =
18:3/18:2/18:4	0.2±0.1 = 0.1±0.1 = 0.1±0.0 < 0.2±0.0 < 0.3±0.0 = 0.2±0.1 =	0.2±0.1 > 0.1±0.0 < 0.2±0.0 = 0.2±0.0 < 0.2±0.0 > 0.1±0.0 =	0.1±0.0	0.1±0.0	0.2±0.0	0.2±0.1 =	0.1±0.0 =	0.1±0.0 =
18:2/18:3/20:0	0.2±0.1 = 0.1±0.0 < 0.2±0.0 = 0.2±0.0 = 0.2±0.0 = 0.1±0.0 =	0.2±0.0 > 0.1±0.0 < 0.2±0.0 = 0.2±0.1 = 0.2±0.0 > 0.1±0.0 <	0.1±0.0	+	0.3±0.0	0.2±0.1 =	0.2±0.1 =	0.1±0.0 =
18:3/18:2/20:4	0.1±0.0 = 0.1±0.0 < 0.1±0.0 < 0.2±0.0 = 0.2±0.0 < 0.3±0.1 =	0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 = 0.2±0.0 = 0.2±0.1 =	0.1±0.0	0.1±0.1	0.1±0.0	0.2±0.0 =	0.1±0.0 <	0.2±0.1 =
20:3/18:2/20:4 +	0.2±0.1 < 0.5±0.1 = 0.6±0.1 < 0.9±0.2 > 0.7±0.0 = 0.7±0.3 =	0.4±0.0 = 0.4±0.1 < 0.7±0.0 < 1.2±0.2 = 1.4±0.3 = 1.2±0.7 =	0.2±0.0	0.5±0.4	0.2±0.1	1.1±0.2 =	0.3±0.0 =	1.3±0.2 =
20:3/18:1/20:5	0.5±0.4 < 1.4±0.2 = 1.9±0.5 < 2.8±0.6 = 2.4±0.1 > 1.1±0.2 <	0.6±0.1 < 1.2±0.2 < 1.9±0.4 < 2.8±0.6 < 3.8±0.4 > 1.0±0.4 <	0.3±0.0	0.4±0.3	0.6±0.0	0.9±0.3 =	0.5±0.0 <	0.9±0.0 =
20:4/18:2/20:5	0.9±0.5 < 2.5±0.1 < 3.3±0.4 = 3.4±0.3 > 2.0±0.1 > 1.0±0.4 <	1.3±0.3 < 2.2±0.4 < 3.5±0.1 > 3.1±0.3 = 3.9±0.7 > 1.3±0.4 <	0.5±0.1	0.6±0.4	1.2±0.1	0.6±0.1 =	1.1±0.1 =	1.4±0.5 =
18:3/18:2/20:5	0.7±0.4 = 0.8±0.2 < 1.3±0.2 = 1.1±0.4 = 0.9±0.1 = 1.2±0.3 =	1.3±0.2 = 1.4±0.4 = 1.7±0.1 < 2.0±0.2 = 2.1±0.4 > 1.5±0.3 <	0.6±0.1	0.7±0.4	0.9±0.1	1.3±0.1 =	1.2±0.0 =	1.6±0.7 =
18:2/18:4/20:5	0.1±0.0 > 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 = 0.2±0.1 =	0.1±0.0 > 0.1±0.0 = 0.1±0.0 < 0.1±0.0 < 0.2±0.0 = 0.1±0.0 =	0.1±0.0	0.1±0.0	0.1±0.0	0.2±0.1 =	0.1±0.0 <	0.2±0.1 =
20:0/18:2/20:5	0.2±0.1 = 0.1±0.0 < 0.3±0.1 < 0.5±0.1 > 0.4±0.0 > 0.2±0.1 <	0.2±0.1 = 0.2±0.1 < 0.3±0.1 < 0.5±0.1 = 0.5±0.1 > 0.2±0.1 <	0.2±0.0	0.1±0.1	0.2±0.0	0.3±0.0 =	0.2±0.0 =	0.2±0.1 =
20:3/18:2/20:5	0.2±0.1 = 0.2±0.0 < 0.3±0.0 < 0.4±0.1 = 0.3±0.0 = 0.3±0.1 <	0.3±0.1 = 0.2±0.0 < 0.4±0.0 = 0.4±0.1 = 0.6±0.2 > 0.2±0.0 <	0.1±0.0	0.1±0.1	0.3±0.0	0.2±0.1 =	0.3±0.0 =	0.2±0.1 =
20:4/18:2/20:5	0.8±0.4 < 1.5±0.0 < 2.3±0.2 = 2.7±0.6 > 1.6±0.1 > 1.3±0.0 <	0.9±0.2 < 1.4±0.3 < 2.4±0.1 < 2.7±0.1 = 3.4±0.9 > 1.9±0.8 =	0.5±0.0	1.0±0.7	1.1±0.1	1.2±0.1 =	1.1±0.0 =	1.8±0.4 =
20:5/18:2/20:5	0.1±0.0 > 0.1±0.0 = 0.1±0.0 > + < + < 0.1±0.1 >	0.1±0.0 = 0.1±0.0 = + > + < + = 0.2±0.2 =	+	0.1±0.0	0.1±0.0	0.3±0.0 =	+	= 0.1±0.1 =
18:2/18:2/22:0 +	0.4±0.0 > 0.2±0.0 > 0.1±0.0 = 0.1±0.0 = 0.2±0.0 = 0.2±0.1 =	0.3±0.0 > 0.1±0.0 = 0.1±0.0 > 0.1±0.0 = 0.1±0.0 < 0.2±0.0 >	0.1±0.0	0.1±0.0	0.3±0.0	0.1±0.0 =	0.2±0.0 <	0.2±0.1 =
20:0/18:0/20:4	0.2±0.1 < 0.4±0.1 = 0.4±0.1 > 0.1±0.1 = 0.1±0.0 = 0.1±0.1 =	0.3±0.0 = 0.3±0.1 = 0.3±0.0 > 0.1±0.0 = 0.1±0.1 = 0.2±0.0 >	0.1±0.0	+	0.2±0.0	0.2±0.0 =	0.2±0.1 =	0.1±0.1 =
18:3/18:3/18:3	0.3±0.1 = 0.5±0.1 = 0.6±0.2 > 0.2±0.1 = 0.2±0.0 < 0.5±0.1 >	0.6±0.1 = 0.7±0.1 = 0.8±0.1 > 0.5±0.1 = 0.4±0.1 = 0.5±0.1 =	0.3±0.0	0.3±0.1	0.5±0.1	0.4±0.1 =	0.5±0.0 =	0.4±0.3 =
18:3/18:4/18:3	0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 =	0.1±0.0 = 0.1±0.0 = 0.1±0.0 > 0.1±0.0 < 0.2±0.0 = 0.1±0.1 =	0.1±0.0	0.1±0.0	+	0.2±0.2 =	0.2±0.0 =	0.1±0.1 =
18:3/18:3/18:4	0.1±0.0 < 0.4±0.1 < 0.7±0.0 > 0.4±0.2 > 0.2±0.0 = 0.3±0.1 =	0.4±0.1 < 0.6±0.1 = 0.7±0.1 > 0.5±0.1 = 0.6±0.1 > 0.4±0.1 =	0.2±0.1	0.2±0.1	0.3±0.0	0.5±0.1 =	0.5±0.0 =	0.5±0.1 =
18:4/18:3/18:4 +	0.5±0.3 < 1.5±0.0 < 2.3±0.1 > 0.9±0.1 > 0.7±0.1 > 0.3±0.2 <	0.9±0.2 < 1.3±0.2 < 1.9±0.2 > 0.6±0.2 < 1.0±0.2 > 0.5±0.1 =	0.4±0.1	0.3±0.2	0.7±0.0	0.3±0.1 =	0.9±0.0 =	0.6±0.0 =
18:4/16:2/20:5								
18:3/18:3/20:5								

18:4/18:3/20:5	0.9±0.6 = 1.7±0.4 < 3.1±0.2 > 1.6±0.5 = 1.5±0.1 > 1.2±0.2 =	2.6±0.4 = 3.3±0.5 = 3.7±0.4 > 2.5±0.4 = 2.8±0.5 > 1.7±0.4 <	1.3±0.2	1.1±0.6	1.5±0.0	1.2±0.4	= 2.7±0.0 =	1.9±0.4 =
18:3/20:5/20:4	0.1±0.0 < 0.1±0.0 = 0.1±0.0 > 0.1±0.0 = 0.1±0.0 = 0.1±0.0 =	0.2±0.1 = 0.1±0.1 = 0.1±0.0 = 0.2±0.0 = 0.1±0.1 = 0.2±0.1 =	0.1±0.0	0.1±0.0	0.1±0.0	0.1±0.1	= 0.2±0.0 =	0.2±0.1 =
18:4/20:0/20:4 + 18:3/20:0/20:5	0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.1±0.0 < 0.3±0.1 >	0.2±0.1 > 0.1±0.0 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.3±0.1 >	0.1±0.0	0.2±0.0	0.1±0.0	0.5±0.1	= 0.1±0.0 =	0.4±0.0 =
18:4/20:0/20:5	0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.0 = 0.2±0.1 >	0.3±0.0 > 0.1±0.0 = 0.1±0.0 = 0.2±0.0 < 0.2±0.0 = 0.3±0.1 >	0.1±0.0	0.2±0.0	0.2±0.0	0.2±0.0	= 0.3±0.0 =	0.3±0.0 =
18:4/20:4/20:5	0.3±0.2 = 0.2±0.0 = 0.2±0.0 = 0.1±0.1 = 0.2±0.0 = 0.2±0.1 =	0.6±0.1 > 0.2±0.1 = 0.2±0.1 = 0.2±0.1 = 0.2±0.1 < 0.4±0.1 >	0.3±0.0	0.3±0.1	0.4±0.1	0.3±0.1	= 0.7±0.0 =	0.5±0.2 =
20:4/18:4/20:5	0.9±0.4 < 2.4±0.1 < 3.3±0.1 > 2.3±0.6 = 1.6±0.2 > 1.1±0.3 <	1.6±0.3 < 2.5±0.4 < 3.2±0.2 > 2.7±0.1 < 3.5±0.6 > 2.2±0.7 =	0.7±0.2	1.3±0.9	1.2±0.1	1.0±0.2	= 1.9±0.1 =	1.7±0.1 =
20:5/18:4/20:5	0.9±0.6 < 2.6±0.4 < 5.2±0.2 > 3.5±1.4 = 2.3±0.2 > 0.7±0.2 <	2.3±0.6 < 4.9±1.3 = 6.3±0.7 > 4.6±0.6 = 5.1±0.6 > 1.5±0.4 <	1.5±0.4	1.4±0.9	1.4±0.1	0.5±0.1	= 3.5±0.5 =	1.3±0.3 =
20:4/20:3/20:4	+ = + = 0.1±0.0 > + < + < 0.2±0.1 >	+ = + = + = + < + < 0.1±0.1 >	+	0.1±0.0	+	0.3±0.1	= + =	0.2±0.0 =
20:4/20:3/20:5	0.1±0.0 = 0.1±0.1 = 0.1±0.0 = 0.1±0.0 = 0.1±0.0 < 0.2±0.1 =	0.1±0.0 = + < 0.1±0.0 < 0.1±0.0 = 0.2±0.0 = 0.3±0.1 >	0.1±0.0	0.1±0.1	+	0.2±0.0	= 0.1±0.0 =	0.2±0.0 =
20:4/20:4/20:4	0.1±0.0 < 0.3±0.1 = 0.2±0.1 > 0.1±0.0 < 0.1±0.0 < 0.9±0.7 >	0.1±0.0 = 0.2±0.1 = 0.2±0.1 > 0.1±0.0 = 0.1±0.0 < 1.3±0.7 >	0.1±0.1	0.3±0.2	0.1±0.0	1.1±0.5	= 0.1±0.0 =	1.2±0.4 =
20:4/20:5/20:4	0.1±0.0 < 0.5±0.1 = 0.6±0.2 = 0.3±0.1 = 0.3±0.0 = 0.4±0.2 =	0.2±0.0 < 0.4±0.2 = 0.5±0.0 = 0.6±0.1 = 0.7±0.2 = 1.1±0.5 =	0.1±0.0	0.5±0.3	0.1±0.0	0.5±0.1	= 0.2±0.0 =	1.1±0.3 =
20:4/20:4/20:5	+ < 0.1±0.0 = 0.1±0.0 = 0.1±0.1 = 0.1±0.0 = + =	0.1±0.0 = 0.1±0.0 < 0.1±0.0 < 0.2±0.0 = 0.3±0.1 = 0.1±0.0 <	0.1±0.0	0.1±0.1	+	0.2±0.1	= 0.1±0.0 =	0.1±0.0 =
20:5/20:4/20:5	+ = + = + = + = + < + =	0.1±0.0 = + = 0.1±0.0 = 0.1±0.0 = 0.1±0.1 > 0.1±0.0 =	0.1±0.0	0.1±0.0	+	0.1±0.0	= 0.1±0.0 =	0.1±0.0 =
18:0/20:5/20:5	0.1±0.0 = + = + = + < + < 0.1±0.1 >	+ = + = + = + < + = 0.1±0.1 =	0.1±0.0	0.1±0.0	0.1±0.1	0.2±0.2	= 0.1±0.0 =	0.1±0.0 =
20:4/20:5/20:5	0.1±0.0 < 0.5±0.1 = 0.7±0.1 > 0.4±0.2 = 0.3±0.0 > 0.2±0.1 =	0.2±0.1 = 0.3±0.1 < 0.6±0.0 < 0.7±0.0 = 1.0±0.3 > 0.5±0.2 <	0.2±0.0	0.4±0.2	0.1±0.0	0.2±0.1	= 0.3±0.1 =	0.5±0.2 =
20:5/20:5/20:5	0.1±0.0 < 0.2±0.0 < 0.3±0.0 > 0.1±0.1 = 0.1±0.0 = 0.3±0.2 =	0.1±0.0 < 0.2±0.1 = 0.3±0.0 > 0.2±0.1 = 0.3±0.1 = 0.2±0.0 =	0.1±0.0	0.2±0.1	0.1±0.0	0.2±0.0	= 0.2±0.0 =	0.2±0.1 =

Table S4. The plastid-derived lipid molecular species of MGDG, DGDG, SQDG, PG, PE, PC, PI and TAG of various parts of the blades of *Undaria pinnatifida* samples uninfected and infected with the endophyte *Laminariocolax aecidioides* collected in different months. Values given as % of total molecular species (mean ± s.d. for triplicate). “+” – amount less than 0.1%, “-” – not detected. Between columns result of Tukey test and Students t-test (p<0.05, n=3) are shown (“>”, “<” – statistically significant difference, “=” – no significant changes). “T” – difference between «June» and «February», «S» – difference between uninfected and infected samples.

Lipid	The lower part of the blades of infected <i>U. pinnatifida</i> samples							The upper intact part of the blades of infected <i>U. pinnatifida</i> samples							The lower part of the blades of uninfected <i>U. pinnatifida</i> samples		The lower part of the blades of uninfected <i>U. pinnatifida</i> samples			The upper part of the blades of uninfected <i>U. pinnatifida</i> samples				
	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Dec.	Jan.	Feb.	Apr.	Jun.	T	Nov.	Jun.	Nov.	S	Jun.	S	Nov.	S	Jun.	S
MGDG	0.8±0.1	= 0.9±0.2	= 0.8±0.3	= 1.0±0.2	= 0.8±0.2	< 1.3±0.2	=	1.2±0.6	< 2.4±0.8	> 0.8±0.1	< 1.3±0.3	> 0.8±0.0	= 1.1±0.3	=	2.6±1.1	1.9±0.3	1.2±0.0	> 1.3±0.4	=	3.7±0.1	> 1.0±0.0	=		
DGDG	1.1±0.4	> 0.4±0.2	= 0.8±0.3	= 1.2±0.2	> 0.7±0.2	< 2.2±0.8	>	1.7±0.8	= 1.0±0.3	= 1.0±0.1	= 1.9±1.5	= 1.3±0.3	= 3.1±1.9	=	2.2±1.4	3.2±1.7	1.1±0.0	= 2.3±0.1	=	2.2±0.1	= 1.7±0.5	=		
SQDG	80.3±2.0	= 78.8±3.4	= 82.6±1.0	= 82.8±1.2	< 86.0±1.1	> 80.9±2.0	=	78.0±1.9	> 74.1±2.1	= 77.1±1.9	< 83.1±1.8	= 83.0±1.2	> 77.1±2.7	<	79.2±2.0	79.3±1.7	81.0±1.6	= 82.1±5.0	=	76.9±0.2	= 74.0±0.3	=		
PG	39.7±2.7	= 42.5±2.9	< 47.9±2.8	= 48.0±4.3	> 38.4±0.6	< 44.4±4.5	=	52.5±0.8	> 48.9±1.2	< 53.5±3.1	< 60.3±1.3	> 54.4±2.9	= 48.5±6.0	<	46.5±2.9	44.2±2.7	41.1±1.8	= 44.2±3.0	=	52.0±2.8	= 53.1±1.1	=		
PE	0.8±0.2	= 0.8±0.1	= 0.9±0.3	= 0.8±0.1	= 0.7±0.1	> 0.3±0.1	<	0.7±0.1	= 1.0±0.4	= 0.7±0.1	< 1.8±0.7	> 0.9±0.3	= 1.4±0.7	=	1.8±0.4	3.2±2.5	1.1±0.2	= 0.3±0.0	=	2.0±0.1	> 1.1±0.9	=		
PC	1.1±0.0	> 0.8±0.2	= 0.7±0.1	> 0.5±0.0	< 0.8±0.1	= 1.1±0.3	>	0.8±0.1	= 0.7±0.2	= 0.5±0.1	= 0.6±0.1	= 0.5±0.1	< 0.9±0.2	>	0.9±0.1	0.8±0.4	1.5±0.3	= 1.4±0.1	=	0.9±0.1	= 0.9±0.2	=		
PI	1.6±1.2	= 1.5±1.4	= 1.2±1.2	= 0.8±0.4	= 1.3±1.5	= 2.4±1.2	>	1.5±0.2	> 0.4±0.8	= 1.7±1.0	= 2.6±2.8	= 1.4±0.3	> 0.2±0.3	=	1.3±0.6	1.7±1.2	0.7±1.0	= +	=	1.9±1.8	= 2.3±3.2	=		
TAG	38.3±4.5	= 34.0±2.2	> 28.7±0.5	= 28.8±3.1	< 33.0±1.6	< 38.0±1.1	>	35.1±1.9	= 34.2±3.0	> 26.2±0.5	= 26.5±1.0	= 23.9±2.3	< 34.4±2.8	>	46.5±2.9	44.2±2.7	41.1±1.8	= 44.2±3.0	=	52.0±2.8	= 53.1±1.1	=		