

Diets of Antarctic sponges: links between the pelagic microbial loop and benthic metazoan food web

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Appendix 1. (a) *Homaxinella balfourensis* and *Isodictya setifera*, (b) *Kirkpatrickia variolosa* and *Sphaerotylus antarcticus*. Percent composition of identified fatty acids and alcohols that made up greater than 1% of those present within the sponge tissues. ± Indicate 1 SE. Bacteria are the sum of 15:0, 17:0, and all iso and anteiso fatty acids. SFA = saturated fatty acids, MFA = monounsaturated fatty acids, PUFA = polyunsaturated fatty acids. Species column headings are distances (m) of the 5 stations from the McMurdo Station sewage outfall. The station at –700 m was north of the outfall; all others were south

Fatty acids and alcohols	<i>H. balfourensis</i>					<i>I. setifera</i>				
	–700	115	166	410	840	–700	115	166	410	840
14:0	2.7 ± 0.2	2.9 ± 0.3	2.7 ± 0.1	3.4 ± 0.3	3.8 ± 0.7	5.4 ± 0.5	4.1 ± 0.2	4.1	3.8 ± 0.8	5.0 ± 0.8
15:0	1.1 ± 0.1	1.0 ± 0.1	1.0 ± 0.3	0.0 ± 0.0	0.5 ± 0.3	1.8 ± 0.1	1.5 ± 0.0	1.9	1.8 ± 0.3	1.5 ± 0.5
16:0	11.0 ± 0.5	14.3 ± 1.0	13.9 ± 0.6	13.3 ± 0.5	12.1 ± 0.7	13.5 ± 0.5	18.4 ± 0.8	21.7	14.5 ± 1.1	15.9 ± 1.2
17:0	1.3 ± 0.4	1.1 ± 0.1	1.5 ± 0.4	0.0 ± 0.0	0.5 ± 0.5	2.1 ± 0.2	1.6 ± 0.1	1.7	2.5 ± 0.7	2.3 ± 0.4
18:0	6.1 ± 0.4	8.8 ± 0.1	9.2 ± 0.3	9.3 ± 0.4	7.4 ± 0.3	1.0 ± 0.3	4.1 ± 0.6	1.7	0.7 ± 0.3	0.6 ± 0.4
22:0	0.0 ± 0.0	0.1 ± 0.1	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	1.9 ± 0.2	1.4 ± 0.1	1.2	1.4 ± 0.6	1.5 ± 0.6
24:0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	2.6 ± 0.4	2.0 ± 0.2	2.3	2.2 ± 1.0	2.1 ± 0.7
30:0	11.6 ± 3.1	2.1 ± 0.9	3.0 ± 3.0	20.4 ± 1.0	17.4 ± 4.4	0.0 ± 0.0	0.0 ± 0.0	0.0	0.0 ± 0.0	0.0 ± 0.0
12:1(n-8)	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0	0.0 ± 0.0	0.0 ± 0.0
15:0 ANTEISO	1.6 ± 0.1	1.2 ± 0.1	1.6 ± 0.2	0.0 ± 0.0	0.9 ± 0.4	0.1 ± 0.1	0.5 ± 0.1	0.5	0.3 ± 0.2	0.1 ± 0.1
15:0 ISO	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.4 ± 0.2	0.7 ± 0.0	1.1	0.7 ± 0.5	0.6 ± 0.3
16:0 ISO	0.0 ± 0.0	0.4 ± 0.1	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	1.1 ± 0.3	1.1 ± 0.1	1.6	2.0 ± 0.2	1.7 ± 0.6
16:1 ISO or 14:0 3OH	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	1.0 ± 0.4	0.7 ± 0.1	0.0	0.3 ± 0.3	0.9 ± 0.3
16:1 (n-5)	0.1 ± 0.1	0.3 ± 0.1	0.0 ± 0.0	0.0 ± 0.0	0.1 ± 0.1	2.0 ± 0.2	1.4 ± 0.1	1.4	1.0 ± 0.5	2.0 ± 0.1
16:1 (n-7)	10.9 ± 0.9	9.9 ± 0.2	11.2 ± 0.6	11.4 ± 0.6	12.2 ± 1.2	16.3 ± 1.4	11.0 ± 0.5	13.2	13.9 ± 2.3	15.4 ± 0.8
16:1 (n-9)	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0	0.5 ± 0.5	0.0 ± 0.0
16:2 (n-6)	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.8 ± 0.3	0.1 ± 0.1	0.0	0.2 ± 0.2	0.0 ± 0.0
17:0 ANTEISO	0.0 ± 0.0	0.2 ± 0.1	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	3.2 ± 0.1	2.5 ± 0.3	3.4	4.3 ± 0.9	4.3 ± 0.3
17:0 CYCLO	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0	3.2 ± 3.2	0.0 ± 0.0
17:0 ISO	1.1 ± 0.1	0.7 ± 0.1	0.9 ± 0.2	0.0 ± 0.0	0.2 ± 0.2	1.1 ± 0.3	0.9 ± 0.1	1.8	0.9 ± 0.4	0.8 ± 0.4
17:1 ISO I/ANTEI B	0.0 ± 0.0	0.2 ± 0.1	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.2 ± 0.2	0.0	0.1 ± 0.1	0.0 ± 0.0
18:1 (n-9)	3.5 ± 0.5	15.7 ± 1.8	10.2 ± 0.9	7.9 ± 0.7	5.1 ± 0.6	2.9 ± 0.2	12.0 ± 1.3	6.4	3.2 ± 0.5	4.4 ± 1.1
18:1 (n-9)t	8.4 ± 0.6	8.5 ± 0.4	9.7 ± 0.5	9.5 ± 0.3	8.6 ± 0.3	7.9 ± 0.9	6.8 ± 0.5	5.5	7.4 ± 0.9	7.5 ± 0.8
18:2 (n-6)	0.2 ± 0.2	4.6 ± 0.5	2.7 ± 0.3	0.5 ± 0.5	0.2 ± 0.2	0.0 ± 0.0	1.4 ± 0.2	0.0	0.0 ± 0.0	0.0 ± 0.0
18:3 (n-6)	0.0 ± 0.0	0.2 ± 0.1	0.3 ± 0.3	0.0 ± 0.0	0.0 ± 0.0	2.0 ± 0.1	1.6 ± 0.7	0.0	2.1 ± 0.5	2.6 ± 0.4
19:1 Alcohol	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	2.1 ± 0.2	1.2 ± 0.2	0.9	3.4 ± 0.8	3.2 ± 0.7
19:1 (n-8)t	0.9 ± 0.3	0.3 ± 0.2	0.3 ± 0.3	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0	0.0 ± 0.0	0.0 ± 0.0
20:1 (n-7)/20:1 (n-9)t	1.9 ± 0.1	1.0 ± 0.2	2.0 ± 0.2	1.3 ± 0.5	1.5 ± 0.4	0.0 ± 0.0	0.0 ± 0.0	0.0	0.0 ± 0.0	0.0 ± 0.0
20:1 (n-9)	1.2 ± 0.2	1.7 ± 0.1	2.0 ± 0.2	1.1 ± 0.7	0.6 ± 0.4	0.2 ± 0.2	1.3 ± 0.1	1.0	0.2 ± 0.2	0.2 ± 0.2
20:1 (n-9)t/20:1 (n-7)	1.9 ± 0.1	0.8 ± 0.3	2.0 ± 0.2	1.3 ± 0.5	1.5 ± 0.4	0.0 ± 0.0	0.0 ± 0.0	0.0	0.0 ± 0.0	0.0 ± 0.0
20:2 (n-6)	0.0 ± 0.0	1.0 ± 0.1	0.9 ± 0.2	0.0 ± 0.0	0.0 ± 0.0	1.0 ± 0.4	1.4 ± 0.4	1.4	0.5 ± 0.3	1.7 ± 0.6
20:4 (n-6)	1.6 ± 0.1	1.1 ± 0.1	1.6 ± 0.2	0.7 ± 0.4	1.6 ± 0.4	0.6 ± 0.2	0.3 ± 0.1	0.0	0.5 ± 0.4	0.5 ± 0.3
20:5 (n-3)	4.7 ± 0.2	1.5 ± 0.6	3.0 ± 0.8	1.3 ± 0.8	1.7 ± 1.1	2.8 ± 1.0	0.5 ± 0.2	0.5	0.1 ± 0.1	1.2 ± 0.5
21:0 2OH	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0	0.0 ± 0.0	0.0 ± 0.0
21:1 (n-6)	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0	1.1 ± 1.1	0.0 ± 0.0
22:1 (n-7)/22:3 (n-3)	0.9 ± 0.6	0.0 ± 0.0	0.4 ± 0.4	0.0 ± 0.0	0.0 ± 0.0	6.2 ± 1.3	1.9 ± 0.1	2.9	4.6 ± 2.1	4.7 ± 1.5
22:5 (n-3)	1.3 ± 0.0	0.7 ± 0.1	0.8 ± 0.2	0.0 ± 0.0	0.3 ± 0.3	0.1 ± 0.1	0.0 ± 0.0	0.0	0.4 ± 0.4	0.0 ± 0.0
22:6 (n-3)	22.3 ± 1.0	12.5 ± 1.5	17.4 ± 1.3	14.0 ± 1.2	20.6 ± 2.4	1.9 ± 0.6	0.6 ± 0.3	1.2	1.7 ± 1.2	1.5 ± 0.5
23:0 3OH	0.0 ± 0.0	0.3 ± 0.2	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	4.7 ± 0.2	3.0 ± 0.3	3.3	5.2 ± 1.6	4.2 ± 0.6

Appendix 1a. (continued)

Fatty acids and alcohols	<i>H. balfourensis</i>					<i>I. setifera</i>				
	-700	115	166	410	840	-700	115	166	410	840
24:1 (n-6)	0.0 ± 0.0	1.0 ± 0.6	0.7 ± 0.7	2.7 ± 1.2	1.7 ± 1.1	0.0 ± 0.0	0.0 ± 0.0	0.0	0.4 ± 0.2	0.0 ± 0.0
24:1 (n-9) Alcohol	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0	0.0 ± 0.0	0.0 ± 0.0
24:1 (n-9)	0.0 ± 0.0	0.8 ± 0.1	0.7 ± 0.1	0.0 ± 0.0	0.1 ± 0.1	8.3 ± 1.2	8.7 ± 0.9	10.9	9.5 ± 2.9	9.3 ± 2.8
25:0 2OH	3.2 ± 0.5	1.4 ± 0.4	1.2 ± 0.7	3.1 ± 1.0	1.8 ± 0.7	0.0 ± 0.0	0.0 ± 0.0	0.0	0.0 ± 0.0	0.0 ± 0.0
26:0 3OH	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.2 ± 0.2	0.0	1.1 ± 1.1	0.0 ± 0.0
C14 N Alcohol	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.4 ± 0.2	0.8	0.0 ± 0.0	1.0 ± 0.7
C16 N Alcohol	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.7 ± 0.3	1.3 ± 0.4	2.0	0.3 ± 0.3	1.0 ± 0.6
ISO 17:1 AT 9	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0	0.3 ± 0.3	0.0 ± 0.0
Bacteria	4.0 ± 0.4	5.3 ± 1.4	4.3 ± 0.9	0.0 ± 0.0	2.1 ± 1.2	9.8 ± 0.7	9.4 ± 0.4	10.3	12.7 ± 0.9	11.3 ± 1.7
SFA	33.9 ± 2.1	31.1 ± 1.9	31.2 ± 2.0	46.4 ± 1.6	41.7 ± 4.3	30.3 ± 0.9	36.7 ± 1.3	37.6	29.6 ± 2.8	30.7 ± 1.9
MUFA	30.9 ± 2.2	42.1 ± 1.0	40.1 ± 1.8	35.2 ± 1.6	32.2 ± 1.7	45.6 ± 3.7	43.7 ± 1.4	42.1	42.3 ± 1.9	43.8 ± 4.3
PUFA	30.1 ± 1.4	21.7 ± 0.9	26.8 ± 1.9	16.4 ± 1.8	24.4 ± 3.1	8.8 ± 2.5	5.8 ± 0.9	3.1	5.4 ± 1.4	7.5 ± 0.8

Appendix 1b

Fatty acids and alcohols	<i>K. variolosa</i>					<i>S. antarcticus</i>				
	-700	115	166	410	840	-700	115	166	410	840
14:0	1.8 ± 0.5	1.7 ± 0.3	2.4 ± 0.2	1.4 ± 0.3	2.7 ± 0.6	2.7 ± 0.2	2.3 ± 0.3	2.4 ± 0.2	2.6 ± 0.1	3.0 ± 0.2
15:0	1.0 ± 0.1	0.9 ± 0.2	1.4 ± 0.1	1.1 ± 0.1	1.1 ± 0.1	0.9 ± 0.0	1.0 ± 0.1	1.0 ± 0.1	0.7 ± 0.2	1.0 ± 0.1
16:0	14.4 ± 0.7	15.3 ± 3.1	16.9 ± 1.5	16.7 ± 1.0	14.5 ± 0.5	11.3 ± 0.8	10.9 ± 1.0	9.3 ± 0.9	11.0 ± 0.6	12.1 ± 1.0
17:0	1.1 ± 0.1	0.9 ± 0.2	1.0 ± 0.1	1.2 ± 0.1	0.9 ± 0.3	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.1 ± 0.1	0.0 ± 0.0
18:0	1.5 ± 0.1	3.2 ± 0.9	2.8 ± 0.3	2.3 ± 0.2	2.0 ± 0.2	0.7 ± 0.1	1.3 ± 0.2	0.8 ± 0.1	0.6 ± 0.1	1.0 ± 0.1
22:0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.1 ± 0.1	0.4 ± 0.2	0.2 ± 0.2	0.5 ± 0.2	0.1 ± 0.1	0.2 ± 0.2
24:0	0.8 ± 0.1	0.1 ± 0.1	0.1 ± 0.1	0.4 ± 0.2	1.0 ± 0.3	0.3 ± 0.2	0.3 ± 0.2	0.2 ± 0.1	0.1 ± 0.1	0.1 ± 0.1
30:0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
12:1(n-8)	0.3 ± 0.2	0.1 ± 0.1	0.1 ± 0.1	0.3 ± 0.1	0.1 ± 0.1	1.4 ± 0.4	1.1 ± 0.3	0.8 ± 0.3	1.2 ± 0.4	0.5 ± 0.3
15:0 ANTEISO	0.0 ± 0.0	0.1 ± 0.1	0.0 ± 0.0	0.0 ± 0.0	0.1 ± 0.1	1.0 ± 0.1	1.4 ± 0.2	1.4 ± 0.2	1.4 ± 0.4	1.1 ± 0.2
15:0 ISO	1.1 ± 0.0	0.8 ± 0.2	1.2 ± 0.2	1.0 ± 0.1	1.0 ± 0.1	2.8 ± 0.5	2.5 ± 0.2	3.7 ± 0.6	2.9 ± 0.5	3.4 ± 0.6
16:0 ISO	1.6 ± 0.1	0.8 ± 0.2	1.3 ± 0.1	1.5 ± 0.2	1.4 ± 0.1	2.2 ± 0.2	2.9 ± 0.7	2.4 ± 0.2	2.4 ± 0.3	2.8 ± 0.2
16:1 ISO or 14:0 3OH	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.1 ± 0.1	0.1 ± 0.1	0.1 ± 0.1	0.1 ± 0.1	0.0 ± 0.0
16:1 (n-5)	0.4 ± 0.2	0.0 ± 0.0	0.2 ± 0.2	0.0 ± 0.0	0.1 ± 0.1	0.7 ± 0.1	0.7 ± 0.1	0.7 ± 0.1	0.6 ± 0.1	0.7 ± 0.1
16:1 (n-7)	8.6 ± 1.6	5.8 ± 1.0	7.3 ± 0.5	6.9 ± 0.8	7.4 ± 1.1	7.6 ± 0.6	7.3 ± 0.5	9.1 ± 0.7	7.6 ± 0.9	9.5 ± 1.1
16:1 (n-9)	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	1.4 ± 0.2	1.2 ± 0.3	2.0 ± 0.2	1.2 ± 0.3	1.3 ± 0.2
16:2 (n-6)	1.5 ± 0.3	0.3 ± 0.1	0.8 ± 0.1	0.8 ± 0.0	1.3 ± 0.4	1.3 ± 0.1	1.9 ± 0.9	1.1 ± 0.1	1.5 ± 0.5	2.0 ± 0.2
17:0 ANTEISO	1.0 ± 0.1	0.7 ± 0.2	0.9 ± 0.1	1.0 ± 0.1	0.9 ± 0.1	1.1 ± 0.1	2.0 ± 0.6	1.2 ± 0.1	1.5 ± 0.3	1.7 ± 0.2
17:0 CYCLO	9.7 ± 1.3	6.3 ± 1.3	7.2 ± 1.1	10.6 ± 0.9	7.9 ± 0.8	14.6 ± 2.3	12.7 ± 3.1	8.1 ± 3.1	14.5 ± 2.6	11.6 ± 2.8
17:0 ISO	1.0 ± 0.0	0.7 ± 0.2	1.0 ± 0.1	1.1 ± 0.0	1.0 ± 0.1	1.3 ± 0.1	1.6 ± 0.2	1.1 ± 0.1	1.4 ± 0.1	1.8 ± 0.2
17:1 ISO I/ANTEI B	0.0 ± 0.0	0.2 ± 0.1	0.1 ± 0.1	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	1.5 ± 0.2	0.4 ± 0.3	0.2 ± 0.2	1.0 ± 0.3
18:1 (n-9)	1.1 ± 0.1	10.4 ± 2.7	7.8 ± 1.2	2.8 ± 0.5	2.2 ± 1.1	1.9 ± 0.3	4.5 ± 0.8	3.3 ± 0.3	2.3 ± 0.3	2.8 ± 0.3
18:1 (n-9)t	4.9 ± 0.4	5.9 ± 1.3	5.4 ± 0.4	5.8 ± 0.3	5.0 ± 0.2	4.7 ± 0.3	5.3 ± 0.8	5.3 ± 0.2	4.3 ± 0.4	5.6 ± 0.3
18:2 (n-6)	0.2 ± 0.2	1.9 ± 0.6	1.2 ± 0.2	0.1 ± 0.1	0.3 ± 0.2	0.5 ± 0.1	1.6 ± 0.2	1.6 ± 0.1	0.5 ± 0.1	0.7 ± 0.1
18:3 (n-6)	1.7 ± 0.2	1.1 ± 0.3	1.4 ± 0.1	1.4 ± 0.1	1.6 ± 0.2	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
19:1 ± (n-11) Alcohol	0.9 ± 0.1	0.6 ± 0.2	0.4 ± 0.2	0.7 ± 0.2	0.6 ± 0.2	1.8 ± 0.4	1.7 ± 0.4	1.0 ± 0.3	1.9 ± 0.4	1.9 ± 0.3
19:1 (n-8)t	2.0 ± 0.1	2.5 ± 1.9	1.5 ± 1.2	1.7 ± 0.4	1.8 ± 1.2	0.0 ± 0.0	0.0 ± 0.0	0.1 ± 0.1	0.1 ± 0.1	0.0 ± 0.0
20:1 (n-7)/20:1 (n-9)t	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.1 ± 0.1	0.0 ± 0.0	0.0 ± 0.0	0.4 ± 0.2	0.1 ± 0.1	0.3 ± 0.2
20:1 (n-9)	0.0 ± 0.0	0.2 ± 0.1	0.1 ± 0.1	0.0 ± 0.0	0.2 ± 0.2	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.1 ± 0.1
20:1 (n-9)t/20:1 (n-7)	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.1 ± 0.1	0.1 ± 0.1	0.0 ± 0.0	0.1 ± 0.1	0.0 ± 0.0	0.5 ± 0.2
20:2 (n-6)	0.0 ± 0.0	0.2 ± 0.1	0.1 ± 0.1	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.4 ± 0.2	0.0 ± 0.0	0.0 ± 0.0
20:4 (n-6)	1.4 ± 0.3	0.7 ± 0.3	1.3 ± 0.1	1.4 ± 0.1	1.6 ± 0.1	1.9 ± 0.2	3.1 ± 1.3	2.1 ± 0.1	2.2 ± 0.3	2.4 ± 0.3
20:5 (n-3)	1.0 ± 0.5	0.1 ± 0.1	1.6 ± 0.5	0.8 ± 0.3	1.2 ± 0.4	4.4 ± 0.6	0.7 ± 0.7	5.2 ± 0.8	3.9 ± 0.8	1.3 ± 1.3
21:0 2OH	8.9 ± 8.9	8.3 ± 8.3	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
21:1 (n-6)	4.5 ± 1.1	2.0 ± 0.6	4.8 ± 1.3	5.9 ± 1.2	6.0 ± 0.8	4.7 ± 0.9	3.1 ± 1.6	5.8 ± 0.5	3.6 ± 0.6	3.8 ± 0.5
22:1 (n-7)/22:3 (n-3)	2.8 ± 1.4	2.4 ± 0.7	3.1 ± 0.6	4.5 ± 0.4	4.4 ± 0.6	5.8 ± 3.6	6.3 ± 3.2	6.9 ± 2.1	10.3 ± 1.4	6.6 ± 3.8
22:5 (n-3)	3.1 ± 0.6	1.0 ± 0.3	2.1 ± 0.8	2.5 ± 0.6	2.6 ± 1.1	3.2 ± 0.6	2.5 ± 0.8	1.2 ± 0.2	1.8 ± 0.2	1.9 ± 0.4
22:6 (n-3)	10.5 ± 2.0	7.0 ± 2.4	11.1 ± 1.4	12.7 ± 1.2	14.8 ± 1.7	8.6 ± 0.4	6.4 ± 1.6	7.8 ± 0.3	7.4 ± 0.5	7.9 ± 1.3
23:0 3OH	1.4 ± 0.4	1.3 ± 0.5	1.1 ± 0.3	1.4 ± 0.1	1.7 ± 0.3	0.7 ± 0.2	0.8 ± 0.1	0.4 ± 0.2	0.5 ± 0.2	0.7 ± 0.3
24:1 (n-6)	0.2 ± 0.2	0.1 ± 0.1	0.0 ± 0.0	0.0 ± 0.0	0.1 ± 0.1	0.5 ± 0.2	0.5 ± 0.3	0.1 ± 0.1	0.1 ± 0.1	0.4 ± 0.4

Appendix 1b. (continued)

Fatty acids and alcohols	<i>K. variolosa</i>					<i>S. antarcticus</i>				
	-700	115	166	410	840	-700	115	166	410	840
24:1 (n-9) Alcohol	0.9 ± 0.4	2.3 ± 2.1	0.3 ± 0.2	0.2 ± 0.2	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
24:1 (n-9)	5.9 ± 1.0	6.6 ± 2.0	8.1 ± 2.3	8.7 ± 1.6	8.3 ± 1.4	2.3 ± 0.9	4.4 ± 1.1	3.9 ± 0.8	1.7 ± 0.4	2.9 ± 1.0
25:0 2OH	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
26:0 3OH	0.0 ± 0.0	2.5 ± 2.2	0.0 ± 0.0	0.0 ± 0.0	0.5 ± 0.5	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
C14 N Alcohol	0.0 ± 0.0	0.0 ± 0.0	0.3 ± 0.3	0.0 ± 0.0	0.4 ± 0.4	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
C16 N Alcohol	0.0 ± 0.0	1.2 ± 1.2	1.3 ± 0.6	0.3 ± 0.3	1.1 ± 0.7	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
ISO 17:1 AT 9	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	1.4 ± 0.1	1.4 ± 0.3	1.1 ± 0.1	1.5 ± 0.2	1.7 ± 0.2
Bacteria	5.8 ± 0.3	4.7 ± 1.2	5.9 ± 0.5	5.9 ± 0.3	5.3 ± 0.6	10.8 ± 1.1	14.5 ± 3.4	13.8 ± 0.6	12.2 ± 1.1	14.2 ± 0.7
SFA	21.4 ± 1.5	22.8 ± 4.5	25.3 ± 1.6	23.8 ± 1.2	23.1 ± 1.1	17.4 ± 1.1	17.5 ± 0.7	15.5 ± 1.2	16.4 ± 0.9	17.9 ± 1.1
MUFA	32.4 ± 4.5	39.7 ± 3.7	39.9 ± 2.0	37.5 ± 2.0	37.0 ± 0.5	32.4 ± 3.6	35.6 ± 3.8	39.7 ± 2.8	34.3 ± 1.0	35.9 ± 4.2
PUFA	17.9 ± 2.5	12.7 ± 3.1	18.9 ± 1.5	19.0 ± 1.0	22.5 ± 1.1	18.7 ± 1.3	14.5 ± 2.6	18.3 ± 1.2	16.1 ± 1.6	14.5 ± 0.7