

Table 3. Contents of extracellular soluble carbohydrates (in μg carbohydrates $\cdot \mu\text{g}$ chlorophyll⁻¹) of axenic epilithic diatoms and diatom–bacteria co-cultures using different bacterial strains.

Diatom strains	Axenic	Co-culture with strain 29 or 31	Co-culture with <i>E. coli</i>	Co-culture with strain 32	Co-culture with strain 29 or 31	Co-culture with <i>E. coli</i>	Co-culture with strain 32
	Carbohydrate concentration (μg carbohydrates $\cdot \mu\text{g}$ chlorophyll ⁻¹)				% Difference to the axenic culture		
<i>A. minutissima</i> day 16	n.d.	15.7 \pm 1.7	10.4 \pm 1.1	81 \pm 1.6	-> + ∞	-> + ∞	-> + ∞
<i>A. minutissima</i> day 28	53 \pm 5	93.3 \pm 8.4	120.2 \pm 5	164 \pm 17	+76	+127	+209
<i>C. microcephala</i> day 16	n.d.	n.d.	n.d.	n.d.	0	0	0
<i>C. microcephala</i> day 28	62.7 \pm 2.3	61.7 \pm 8.4	35.5 \pm 2.6	49.1 \pm 1.3	-2	-43	-22
<i>C. minuta</i> str.1 day 16	26.7 \pm 2.6	20.3 \pm 0.4	11.6 \pm 1.1	28 \pm 0.7	-24	-57	+5
<i>C. minuta</i> str.1 day 28	29.8 \pm 5	37.2 \pm 2.1	80.2 \pm 3.2	25.9 \pm 4.4	+25	+169	-13
<i>C. minuta</i> str.2 day 16	n.d.	n.d.	n.d.	n.d.	0	0	0
<i>C. minuta</i> str.2 day 28	54 \pm 2.6	50.6 \pm 2.7	91.9 \pm 15	27.1 \pm 2.7	-6	+70	-50
<i>F. pinnata</i> day 16	59.3 \pm 3.3	57.2 \pm 3.1	23.6 \pm 0	54.5	-4	-60	-8
<i>F. pinnata</i> day 28	38.4 \pm 7.4	24.3 \pm 2	32.2 \pm 2.4	11.5 \pm 2.4	-37	-16	-70
<i>Staurosira</i> sp. day 16	12.3 \pm 3.5	6.8 \pm 2.3	17.8 \pm 0.6	5.7 \pm 0.5	-45	+45	-54
<i>Staurosira</i> sp. day 28	43.5 \pm 8.2	40.8 \pm 2.3	17.9 \pm 1.6	11.8 \pm 2.4	-6	-59	-73
<i>Pseudostaurosira</i> sp. day 16	27.7 \pm 0.1	109.2 \pm 6	9.6 \pm 2.7	314 \pm 19	+294	-65	+1032
<i>Pseudostaurosira</i> sp. day 28	33.2 \pm 6.5	22.5 \pm 4.2	48.3 \pm 6.9	23.5 \pm 2.5	-32	+45	-29
<i>Punctastriata</i> sp. day 16	45.6 \pm 1.4	55.5 \pm 3	43.4 \pm 2.5	9.6 \pm 1.2	+22	-5	-79
<i>Punctastriata</i> sp. day 28	17.2 \pm 1.6	14.3 \pm 0.8	29.6 \pm 2.3	33.8 \pm 2.2	-17	+72	+97
D164 day 16	19.5 \pm 5.3	7.2 \pm 1.3	4.6 \pm 0.7	5.25 \pm 0.8	-63	-76	-73
D164 day 28	10.6 \pm 0.4	18.1 \pm 0.2	8.9 \pm 0.3	22.4 \pm 1.7	+71	-16	+111