

Table S2

Cell numbers of *in situ* incubation experiments in 2006 and 2008. Cell counts of Sybr Green I stained cells collected on 0.22 μm membrane filters. Standard deviations of ten counts from each experiment are given in brackets. Cell counts were divided into cells with length of $>0.35 \mu\text{m}$ and $<0.35 \mu\text{m}$ (representing micrococoid cells). C-L/D: Control of light and dark incubations, RB-L: treatments with increased $[\text{}^1\text{O}_2]_{\text{SS}}$; numbers indicate μM concentrations of RB added, RB-D: Dark control of RB treatments, HP10-L/D: Light and dark incubations with $10 \mu\text{M}$ H_2O_2 .

Experiment	Total [$\times 10^6$ cells mL^{-1}]	$>0.35 \mu\text{m}$ [$\times 10^6$ cells mL^{-1}]	$<0.35 \mu\text{m}$ Micrococoids [$\times 10^6$ cells mL^{-1}]	Fraction of $<0.35 \mu\text{m}$ cells (%)
<i>In situ</i> experiment 2006 (02. July)				
C-L	3.71 (± 0.3)	1.85 (± 0.22)	1.86 (± 0.19)	50.1 (± 2.9)
C-D	4.71 (± 1.1)	2.14 (± 0.70)	2.57 (± 0.84)	54.5 (± 12.7)
RB0.05-L	3.72 (± 0.58)	1.03 (± 0.19)	2.69 (± 0.44)	72.4 (± 3.2)
RB0.2-L	4.45 (± 0.54)	1.76 (± 0.24)	2.68 (± 0.51)	60.3 (± 8.7)
RB0.2-D	4.08 (± 0.32)	2.31 (± 0.19)	1.77 (± 0.26)	43.4 (± 5.5)
HP10-L	4.00 (± 0.50)	1.71 (± 0.25)	2.29 (± 0.35)	57.2 (± 5.1)
HP10-D	4.95 (± 0.45)	2.25 (± 0.30)	2.70 (± 0.52)	54.6 (± 9.3)
<i>In situ</i> experiment 2008 (5. September)				
C-L	2.06 (± 0.18)	0.51 (± 0.10)	1.55 (± 0.17)	75.1 (± 5.2)
C-D	1.30 (± 0.08)	0.45 (± 0.04)	0.85 (± 0.06)	65.2 (± 2.4)
RB0.02-L	3.37 (± 0.53)	0.47 (± 0.06)	2.90 (± 0.52)	86.1 (± 7.0)
RB0.02-D	2.00 (± 0.10)	0.49 (± 0.07)	1.51 (± 0.10)	75.4 (± 3.4)
HP10-L	1.36 (± 0.24)	0.41 (± 0.06)	0.94 (± 0.21)	69.5 (± 9.4)
HP10-D	1.36 (± 0.16)	0.39 (± 0.05)	0.97 (± 0.15)	71.2 (± 7.5)