

**Table S2.** Sulfate Reduction Activity. The average of triplicate samples is shown in units of  $\mu\text{mol S/mL/day}$ . Samples with SRA significantly above baseline values are shown in bold. R1, R2: petro F76; R3, R4: FT-F76; R5, R6: 1:1 mix of petro- and FT-F76; R7, R8: no added fuel. SRA value of the original seawater used for filling the reactors (Day 0) was  $0.032 \mu\text{mol S/mL/day}$  (average of 5 replicates).

	Time (days)					
	24	53	83	172	239	400
<b>R1: petro-F76</b>	0.029	0.019	0.032	0.023	0.025	0.033
<b>R2: petro-F76</b>	0.0351	0.019	0.037	0.022	0.021	0.044
<b>R3: FT-F76</b>	0.044	0.0145	0.032	0.022	0.018	0.035
<b>R4: FT-F76</b>	0.036	0.016	0.035	0.02	0.019	0.029
<b>R5: fuel mix</b>	0.029	0.016	0.0275	0.02	0.025	0.038
<b>R6: fuel mix</b>	0.036	0.033	<b>0.18</b>	0.02	0.024	0.073
<b>R7: no fuel</b>	0.053	0.039	0.038	0.03	0.016	0.031
<b>R8: no fuel</b>	0.034	0.029	0.035	0.03	0.018	0.042