

1 **Supplementary Information**

2 **Table S2: Significant differences of growth, hydrogen consumption and hydrogen**
3 **uptake activity for cultures grown without thiosulfate (+ H₂ - S₂O₃²⁻) and cultures grown**
4 **with thiosulfate (+ H₂ + S₂O₃²⁻).**

5 *S. denitrificans* were grown without thiosulfate (+ H₂ - S₂O₃²⁻) and with thiosulfate (+ H₂ +
6 S₂O₃²⁻), the growth, H₂ consumption and H₂ uptake activity are shown in Figure 1, Figure 2
7 and Figure 5, respectively. Statistics were performed using the student's t-test.

	denser growth overall	higher H ₂ consumption	higher H ₂ uptake activity
+ H ₂ - S ₂ O ₃ ²⁻	p-value 0.002	p-value 0.001	p-value <0.001
compared with			
+ H ₂ + S ₂ O ₃ ²⁻			
