

Supplementary Material

Supplementary figure legends

Supplementary figures S1-S6

Supplementary figure legends

Table S1

Average LAP activity buffered in 0.1 M Tris and MOPS at pH 8.1 in coastal seawater ($n=3 \pm SE$).

Figure S2

Change in pH_t in each treatment during trial 1 ($n=3 \pm SD$).

Figure S3

Change in pH_t in each treatment during trial 2 ($n=3 \pm SD$).

Figure S4

Cell specific AG activity (mean \pm SE, $n=3$) in response to seawater acidified with 0.1 M HCl (A), bubbled with CO₂-Air gas mixture (B) and CO₂-Air gas mixture introduced through gas-permeable silicon tubing (P) in trial 1.

Figure S5

Cell specific AAP activity (mean \pm SE, $n=3$) in response to seawater acidified with 0.1 M HCl (A), bubbled with CO₂-Air gas mixture (B) and CO₂-Air gas mixture introduced through gas-permeable silicon tubing (P) in trial 1.

Figure S6

Cell specific AAP activity (mean \pm SE, $n=3$) in response to seawater acidified with 0.1 M HCl (A), bubbled with CO₂-Air gas mixture (B) and CO₂-Air gas mixture introduced through gas-permeable silicon tubing (P) in trial 2.

Supplementary figures

Table S1

Trial	Tris activity (nmol l ⁻¹ h ⁻¹)	MOPS activity (nmol l ⁻¹ h ⁻¹)
1	51.54 (±2.32)	43.42 (±1.43)
2	35.92 (±0.81)	29.34 (±1.08)

Figure S2

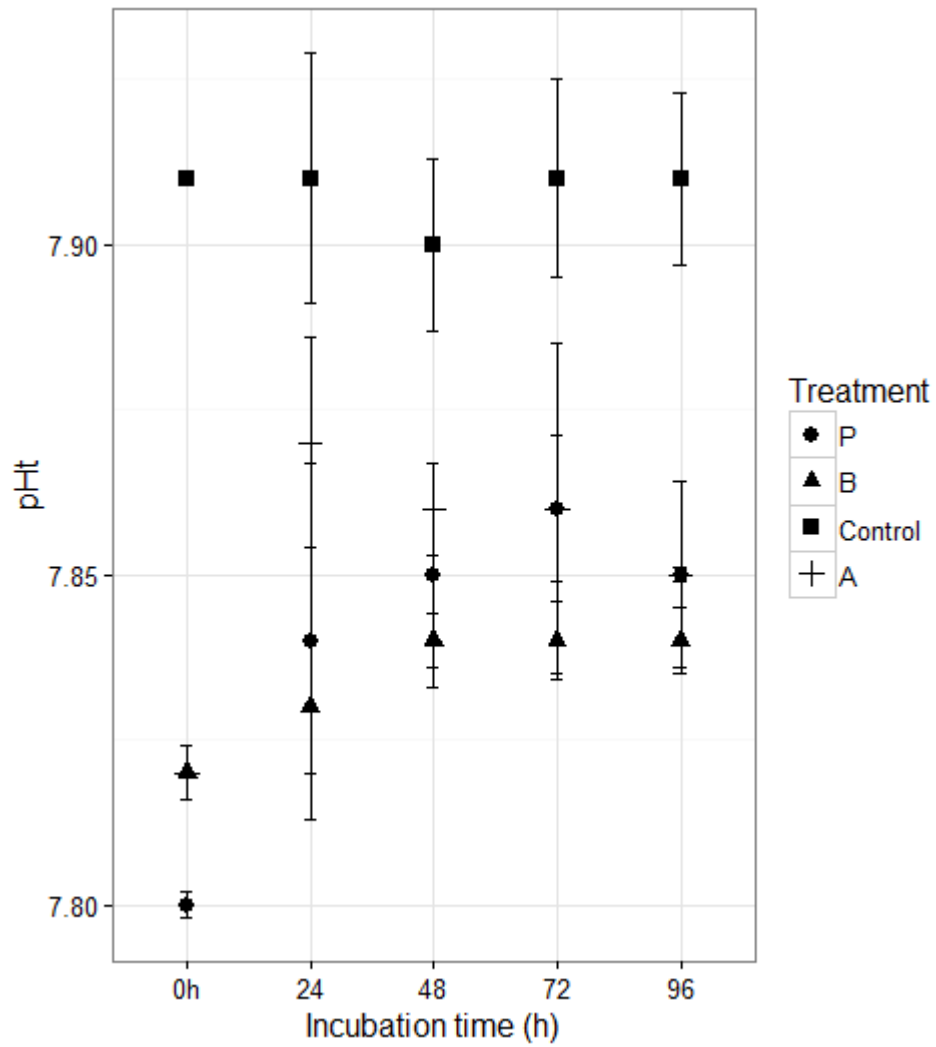


Figure S3

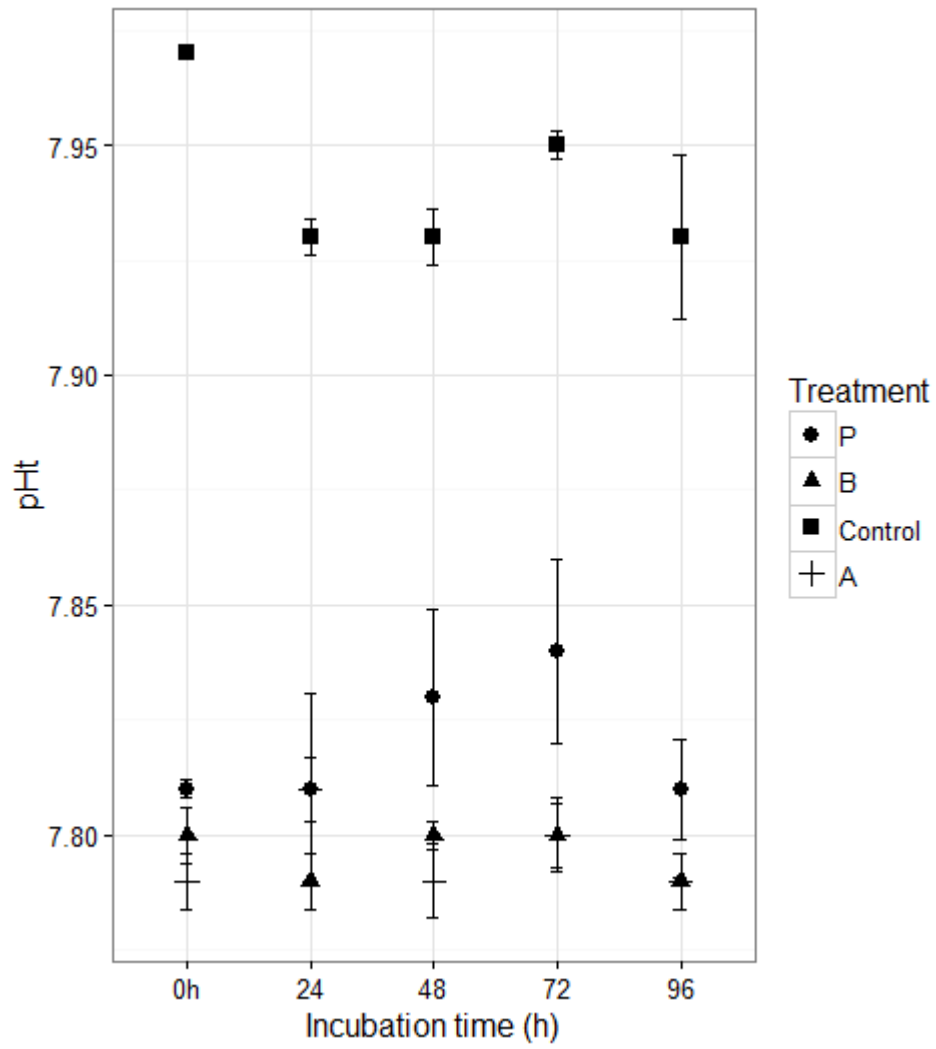


Figure S4

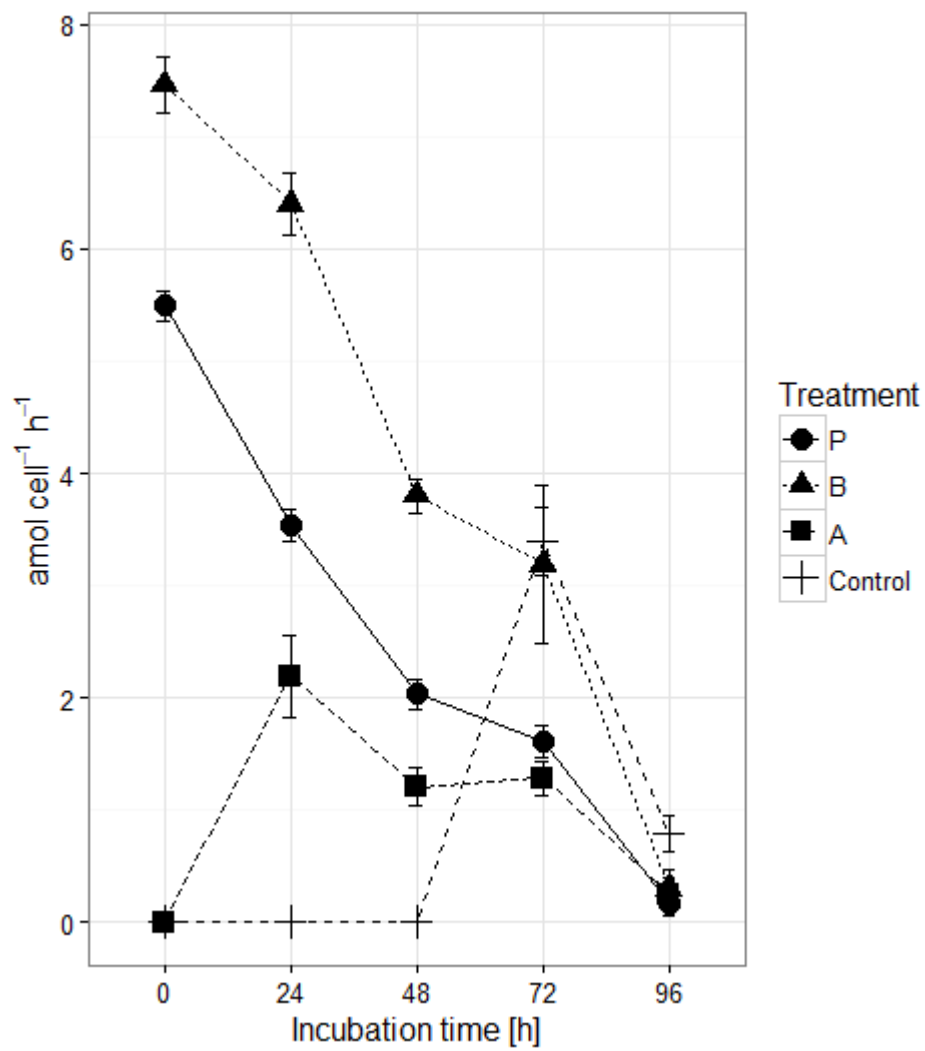


Figure S5

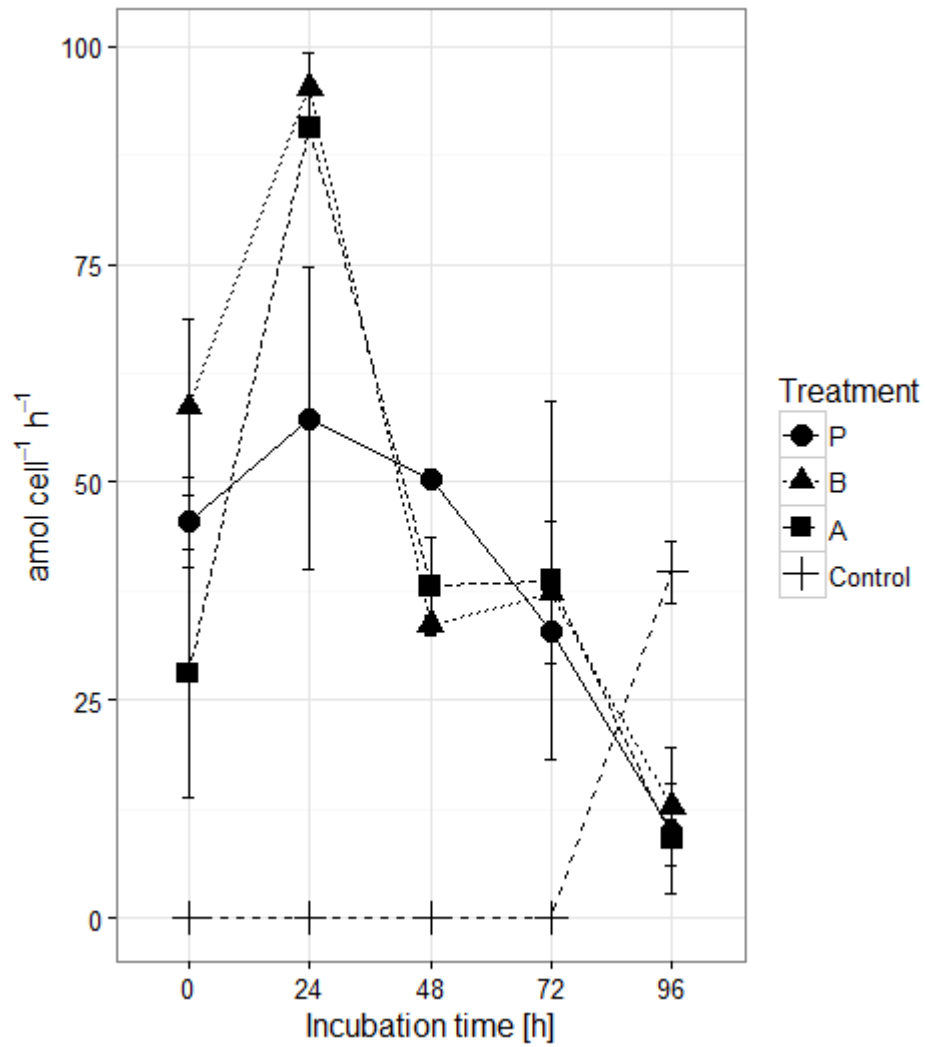


Figure S6

