

Supplementary Information

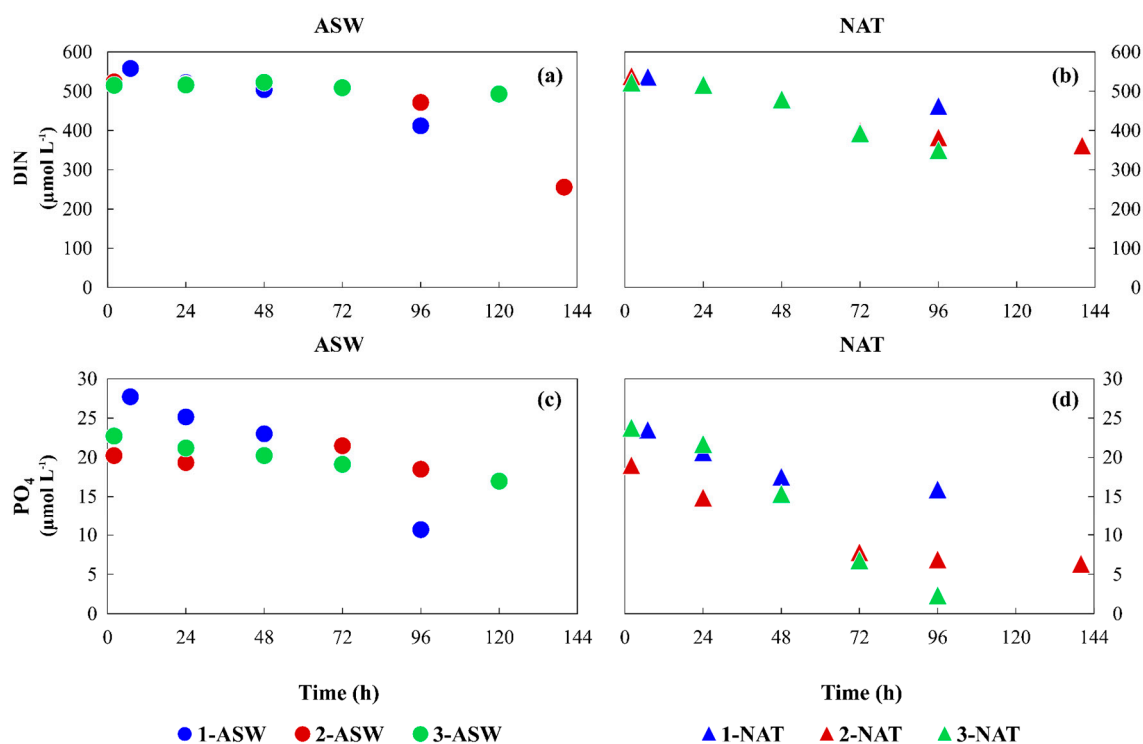


Figure S1. Time variation of (a,b) dissolved inorganic nitrogen (DIN) and (c,d) phosphate (PO_4) during the three *T. rotula* culture experiments. Circles represent the artificial seawater medium (ASW) and triangles the natural seawater medium (NAT). Blue symbols represent the first experiment (EXP-1), red the second experiment (EXP-2), green the third experiment (EXP-3).

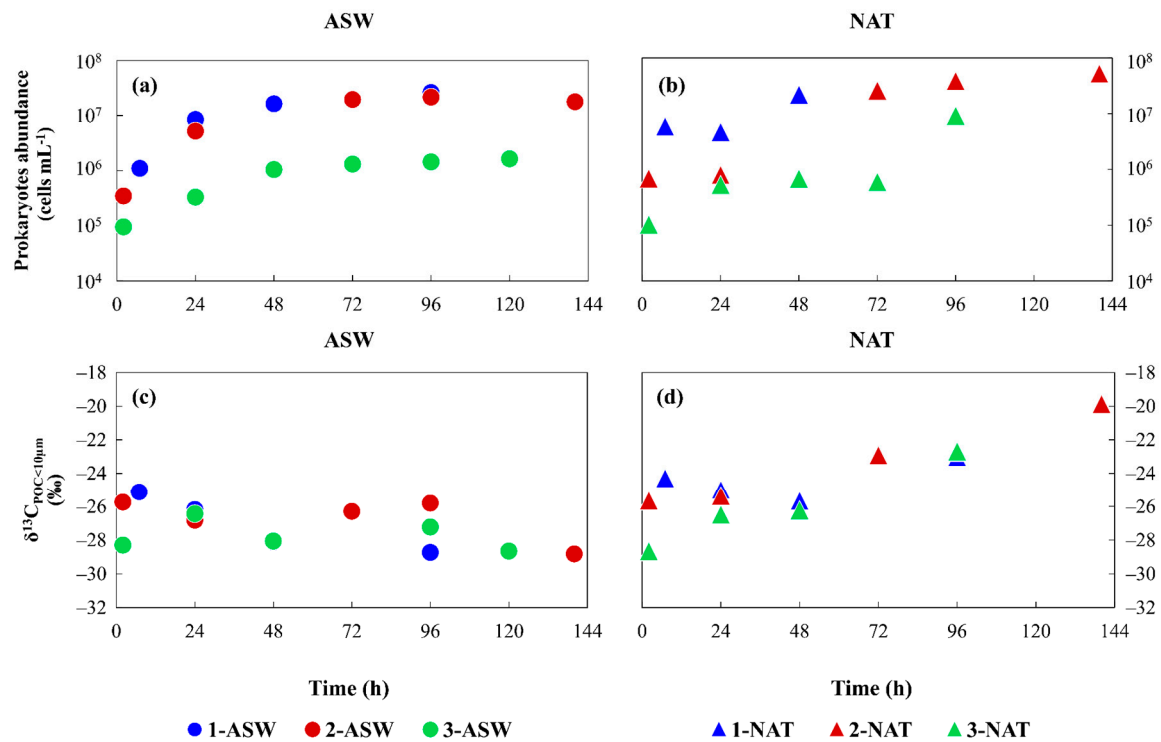


Figure S2. Time variation of prokaryotes abundance (a,b) and isotopic composition ($\delta^{13}\text{C}_{\text{POC}<10\mu\text{m}}$; c,d) during the three *T. rotula* culture experiments of culture. Circles represent the artificial seawater medium (ASW) and triangles the natural seawater medium (NAT). Blue symbols represent the first experiment (EXP-1), red the second experiment (EXP-2), green the third experiment (EXP-3). Prokaryotes abundance is shown in a logarithmic scale.