Supplement Table 1: Proportion of embryos that developed to D-shape larvae (Hatching rate; Experiment#1), abundance (Experiment#2) and average larvae shell length during the two experiments (data also presented in Figs. 1 and 2). Average shell thickness has been measured for pediveliger larvae (Experiment#2, day 15 of development) only and data are presented in Fig. 3. Experimental abiotic parameters measured at the time of sampling are also presented. Average values for the triplicates as well as SD are shown. Salinity was measured at the beginning of each incubation period and is presented in Table 1.

Experiment #1

Day	pH (N. B. S. scale)		Total alkalinity (meq kg^{-1})		Temp (ºC)		Success D-larvae (%) Hatching rate		Average D-veliger shell length (µm)	
	Control	Low pH	Control	Low pH	Control	Low pH	Control	Low pH	Control	Low pH
2	8.15 ± 0.00	7.81 ± 0.01	2.488 ± 0.004	2.489 ± 0.002	15.8	16.0	76.0 ± 2.0	72.3 ± 1.2	81.4 ± 0.9	77.7 ± 0.5
2	8.09 ± 0.00	7.58 ± 0.01	2.438 ± 0.002	2.436 ± 0.003	15.6	15.2	75.4 ± 2.5	57.6 ± 1.7	80.9 ± 0.4	70.6 ± 0.6

Experiment #2

Day	pH (N. B. S. scale)		Total alkalinity (meq kg^{-1})		Temp (ºC)		Abundance (x10^6 ind.)		Average shell length (µm)		Average shell thickness (µm)	
	Control	Low pH	Control	Low pH	Control	Low pH	Control	Low pH	Control	Low pH	Control	Low pH
2	8.02 ± 0.04	7.81 ± 0.01	2.385 ± 0.001	2.385 ± 0.004	19.7	19.5	1.40 ± 0.01	1.41 ± 0.02	78.6 ± 4.5	78.6 ± 4.5	-	-
6	8.05 ± 0.02	7.80 ± 0.01	2.396 ± 0.007	2.385 ± 0.001	19.8	19.5	0.99 ± 0.04	0.96 ± 0.05	108.2 ± 1.93	103.9 ± 1.97	-	-
8	8.08 ± 0.01	7.77 ± 0.01	2.407 ± 0.002	2.413 ± 0.005	19.1	18.9	0.77 ± 0.05	0.78 ± 0.11	139.8 ± 0.49	135.2 ± 0.73	-	-
10	8.01 ± 0.04	7.79 ± 0.02	2.428 ± 0.007	2.427 ± 0.004	19.6	19.2	0.76 ± 0.04	0.75 ± 0.02	165.0 ± 1.87	160.1 ± 1.41	-	-
13	8.04 ± 0.01	7.77 ± 0.05	2.441 ± 0.014	2.434 ± 0.005	19.4	19.0	0.74 ± 0.04	0.75 ± 0.07	195.6 ± 5.78	182.3 ± 3.57	-	-
15	7.99 ± 0.01	7.71 ± 0.07	2.431 ± 0.008	2.426 ± 0.002	19.1	18.6	0.74 ± 0.02	0.74 ± 0.02	207.0 ± 4.39	194.6 ± 1.66	4.15 ± 0.16	3.65 ± 0.12