

Table 1. Experimental conditions (mean± SE)

	POM (mg.L <sup>-1</sup> )	Cell concentration (10 <sup>6</sup> cells.L <sup>-1</sup> )	Cell length (μm)
Condition A	2.5± 0.1	3.1 ± 0.2	Ho50: 50.2 ± 1.4
		3.2 ± 0.3	Ho75: 74.9 ± 2.2
		2.9 ± 0.3	Ho95: 95.2 ± 1.8
Condition B	1.9± 0.1	3.0 ± 0.3	Ho-small: 37.5 ± 5.2
		3.1 ± 0.3	Ho-large: 99.4 ± 2.2

Note: Ho = *H. ostrearia*

Table 2. Experimental hypotheses tested in condition B

H0	Proportions not significantly different at sampling sites	No selection by the pallial organs
H1	Proportions significantly different at sampling sites	Selection by the pallial organs
H1a	Proportions significantly different in water and at ventral and/or dorsal tracts	Selection at gills
H1b	Proportions significantly different in ventral tracts and pseudofaeces	Selection at labial palps
H1c	H1a and H1b accepted	Selection at gills and labial palps

Table 3. Comparison of the proportions of the three *Haslea ostrearia* populations at sampling sites in condition A

	Mean proportions of the three populations (% $\pm$ SE)			$\chi^2$ test (vs inflow)	
	Ho50	Ho75	Ho95	$\chi^2$ observed	p
Inflow	40 (0.2)	31 (0.1)	29 (0.1)	-	-
Outflow	38 (0.1)	32 (0.1)	30 (0.1)	0.09	N.S.
Pseudofaeces	21 (0.1)	40 (0.2)	39 (0.1)	8.95	*

Note : \*,  $p \leq 0.05$ ; N.S., not significant.

Table 4. Role of particle size in selection at oyster pallial organs

Particle dimensions	Access to principal filaments	Selection	
		At gill	At labial palps
All axes < pf width	Free	Possible	Possible
All axes > pf width	Not possible	Not possible	Possible
1 axis > pf width	Limited	Passive	Possible

**Note:** pf = principal filament