

Article

Filtering Activity and Nutrient Release by the Keratose Sponge *Sarcotragus spinosulus* Schmidt, 1862 (Porifera, Demospongiae) at the Laboratory Scale

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Supplementary Table 1. Clearance rate (CR, mean $\pm$ SE) of Mediterranean sponges in different experimental conditions.

(DW: dry weight; WW: wet weight; V: volume; HMA: high microbial abundance sponge species; LMA: low microbial abundance sponge species)

	CR (mL h ⁻¹ weight or volume)			Incubation time	Incubation volume (L)	mean value sponge size	in situ/ex situ	Host type (HMA/LMA)	Location	References
	DW (g)	WW (g)	V (mL)							
<i>Sarcotragus spinosulus</i>	45.00 $\pm$ 4.10	17.11 $\pm$ 1.72	17.33 $\pm$ 1.89	2 h	3.0	125 mL	<i>ex situ</i>	HMA	Mediterranean	Present paper
<i>Dysidea avara</i>	14.46 $\pm$ 1.51	-	-	2 h	0.3	5 cm ²	<i>ex situ</i>	LMA	Mediterranean	Turon et al. 1997
<i>Crambe crambe</i>	10.43 $\pm$ 1.76	-	-	2 h	0.3	5 cm ²	<i>ex situ</i>	LMA	Mediterranean	Turon et al. 1997
<i>Agelas oroides</i>	-	-	20.03	1.5 h	1.0	40 mL	<i>in situ</i>	HMA	Mediterranean	Ledda 2014
<i>Ircinia variabilis</i>	-	-	15.96	1.5 h	1.0	60 mL	<i>in situ</i>	HMA	Mediterranean	Ledda 2014
<i>Spongia officinalis</i>	21.00	-	2.7	1 h	1.0	91 mL	<i>ex situ</i>	HMA	Mediterranean	Stabili et al. 2006
<i>Chondrilla nucula</i>	-	-	1.4	8 h	0.3	25 mL	<i>ex situ</i>	HMA	Mediterranean	Milanese et al. 2003
<i>Hymeniacidon perlevis</i>	-	17.67	-	8 h	3.0	2.7 g WW	<i>ex situ</i>	LMA	Pacific Ocean ¹	Fu et al. 2007

¹ Study conducted in the Pacific Ocean with species spread also in the Mediterranean Sea.

Supplementary Table 2. Excretion rate by Mediterranean sponge species measured under ex situ conditions.

	E ($\mu\text{mol gDW h}^{-1}$)			References
	NH_4^+	NO_x	PO_4^{3-}	
<i>Sarcotragus spinosulus</i>	0.313	0.125	0.006	Present paper (T_C1 tanks)
	0.475	0.009	0.008	Present paper (T_C2 tanks)
	0.047	0.121	0.007	Present paper (SC tanks, absence of <i>Vibrio</i>)
<i>Dysidea avara</i>	0.654	0.000	0.051	Jimenez & Ribes, 2007
<i>Agelas oroides</i>	/	0.365	0.059	Jimenez & Ribes, 2007
<i>Ircinia oros</i>	/	0.227	/	Jimenez & Ribes, 2007
<i>Aplysina aerophoba</i>	-0.302	0.774	0.026	Jimenez & Ribes, 2007
<i>Axinella polypoides</i>	/	0.188	/	Jimenez & Ribes, 2007
<i>Chondrosia reniformis</i>	-0.636	0.702	/	Jimenez & Ribes, 2007