

Table S3. Specific rate of substrate removal (R_{xi}) for nitrogen (N), phosphorus (P), and silica (Si) in *Melosira nummuloides* in different media.

Different letters in the same column indicate statistically significant differences ($p < 0.05$).

Culture medium	Specific rate of substrate removal (R_{xi})		
	N (mg-N/g-DCW/d)	P (mg-P/g-DCW/d)	Si (mg-Si/g-DCW/d)
Control	10.4 ± 0.34^a	1.38 ± 0.13^a	13.8 ± 1.00^a
MOM-MS	4.98 ± 0.29^b	1.18 ± 0.02^a	11.8 ± 1.16^a
MOM-FS	5.28 ± 0.11^b	1.20 ± 0.05^a	11.3 ± 1.11^a