

Table S1: Total inorganic elements composition of byssal threads for each species expressed in $\mu\text{mol}\cdot\text{g}^{-1}$. Values correspond to means and respective standard deviations

Group	<i>M. edulis</i>	<i>M. trossulus</i>	<i>M. galloprovincialis</i>	<i>M. californianus</i>	<i>P. nobilis</i>	<i>P. perna</i>	<i>I. bicolor</i>	<i>X. securis</i>	<i>B. solisianus</i>	
B	2.7 ± 0.2	2.0 ± 0.4	7.4 ± 0.5	10.7 ± 0.8	2.0 ± 0.2	7.2 ± 0.7	2.4 ± 0.8	1.0 ± 0.3	0.5 ± 0.09	
Fe	22.5 ± 0.7	23 ± 4	17 ± 2	7.0 ± 0.7	43 ± 5	14 ± 3	50 ± 10	80 ± 10	23.6 ± 0.9	
Al	10 ± 1	29 ± 2	22 ± 2	5.6 ± 0.8	24 ± 5	20 ± 3	53 ± 10	33 ± 8	35 ± 3	
I	Mg	11 ± 2	6.6 ± 0.5	6 ± 1	15 ± 2	36 ± 6	126 ± 25	184 ± 52	13 ± 6	62 ± 1
	Ca	24 ± 4	11 ± 2	15.4 ± 0.6	16 ± 6	70 ± 10	25 ± 6	64 ± 21	28 ± 5	31.1 ± 0.8
	Mn	46 ± 6	15 ± 2	2.0 ± 0.3	2.4 ± 0.3	0.16 ± 0.03	0.53 ± 0.05	7 ± 1	0.4 ± 0.2	1.73 ± 0.09
	K	2.2 ± 0.2	2.6 ± 0.2	5 ± 3	1.5 ± 0.2	1.6 ± 0.2	10 ± 3	13 ± 4	4 ± 2	21 ± 10
	Ti	0.31 ± 0.05	0.84 ± 0.08	0.4 ± 0.1	0.29 ± 0.06	0.5 ± 0.1	0.65 ± 0.07	1.3 ± 0.1	1.4 ± 0.1	1.1 ± 0.2
	V	1.42 ± 0.05	0.82 ± 0.06	1.47 ± 0.08	1.9 ± 0.1	1.2 ± 0.2	0.42 ± 0.02	0.42 ± 0.02	0.8 ± 0.2	0.18 ± 0.02
	Cr	0.176 ± 0.006	0.21 ± 0.02	0.08 ± 0.01	0.052 ± 0.004	0.08 ± 0.02	0.07 ± 0.01	0.20 ± 0.05	0.11 ± 0.01	(9.93 ± 0.01)10 ⁻²
	Ni	1.38 ± 0.03	1.61 ± 0.06	0.19 ± 0.01	0.27 ± 0.03	0.45 ± 0.06	0.073 ± 0.005	0.48 ± 0.05	0.43 ± 0.06	0.70 ± 0.01
II	Cu	0.25 ± 0.02	3.7 ± 0.3	1.0 ± 0.5	0.12 ± 0.06	2.6 ± 0.3	0.4 ± 0.2	2.2 ± 0.5	2.1 ± 0.4	1.48 ± 0.05
	Zn	0.52 ± 0.03	1.4 ± 0.1	2.0 ± 0.2	0.27 ± 0.04	1.0 ± 0.1	0.28 ± 0.04	2.9 ± 0.5	2.6 ± 0.6	1.55 ± 0.09
	Sn	0.010 ± 0.008	0.024 ± 0.002	0.05 ± 0.04	0.01 ± 0.01	0.020 ± 0.007	0.15 ± 0.04	0.2 ± 0.1	0.09 ± 0.03	0.3 ± 0.2
	Sr	0.12 ± 0.01	0.05 ± 0.01	0.08 ± 0.01	0.09 ± 0.03	0.37 ± 0.04	0.6 ± 0.1	1.2 ± 0.4	0.13 ± 0.03	0.62 ± 0.06
	Mo	0.128 ± 0.002	0.04 ± 0.02	0.17 ± 0.07	0.49 ± 0.05	0.16 ± 0.02	0.017 ± 0.001	(4.1 ± 0.1)10 ⁻³	0.021 ± 0.004	(3.15 ± 0.02)10 ⁻³
	Ba	0.064 ± 0.004	0.053 ± 0.006	0.033 ± 0.008	0.017 ± 0.003	0.013 ± 0.002	(3.0 ± 0.3)10 ⁻³	0.008 ± 0.001	0.04 ± 0.02	(6.9 ± 0.2)10 ⁻³
	Be	(1.33 ± 0.04)10 ⁻³	(7 ± 2)10 ⁻⁴	(9 ± 1)10 ⁻³	(8 ± 1)10 ⁻⁴	(7 ± 2)10 ⁻³	(2.0 ± 0.3) 10 ⁻³	(8 ± 2)10 ⁻³	(1.4 ± 0.3)10 ⁻²	(3.2 ± 0.2)10 ⁻³
	Co	(33.4 ± 0.8)10 ⁻³	0.062 ± 0.007	0.06 ± 0.03	0.016 ± 0.004	0.026 ± 0.006	(8.8 ± 0.4)10 ⁻³	0.051 ± 0.005	0.064 ± 0.009	0.134 ± 0.002
	As	0.014 ± 0.001	0.023 ± 0.002	0.026 ± 0.005	(5.6 ± 0.6)10 ⁻³	0.07 ± 0.02	(13.8 ± 0.9) 10 ⁻³	0.034 ± 0.004	0.05 ± 0.01	0.012 ± 0.002
	Se	(9.3 ± 0.9)10 ⁻³	0.032 ± 0.006	0.18 ± 0.05	0.06 ± 0.01	n.e	0.057 ± 0.002	0.10 ± 0.06	0.12 ± 0.02	0.038 ± 0.004
	Ag	0.017 ± 0.008	(3.6 ± 0.6)10 ⁻³	0.004 ± 0.002	0.026 ± 0.003	0.011 ± 0.001	0.008 ± 0.001	0.031 ± 0.005	0.011 ± 0.002	0.013 ± 0.002
III	Cd	(1.7 ± 0.1)10 ⁻³	(2.4 ± 0.4)10 ⁻³	(3.9 ± 0.3)10 ⁻³	0.024 ± 0.003	0.001 ± 0.001	(2.84 ± 0.09)10 ⁻³	(3.0 ± 0.7)10 ⁻³	(2.8 ± 0.5)10 ⁻³	0.022 ± 0.001
	Sb	(4.0 ± 0.2)10 ⁻³	(3.3 ± 0.2)10 ⁻³	(2.7 ± 0.2)10 ⁻³	(2.5 ± 0.3)10 ⁻³	0.010 ± 0.002	(1.3 ± 0.3)10 ⁻³	(6.0 ± 0.7)10 ⁻³	0.007 ± 0.001	(3.37 ± 0.06)10 ⁻³
	Pb	(1.29 ± 0.08)10 ⁻³	(13 ± 1)10 ⁻³	(60 ± 7)10 ⁻³	(1 ± 1)10 ⁻³	0.14 ± 0.04	0.022 ± 0.007	0.038 ± 0.006	0.080 ± 0.009	0.023 ± 0.007
	U	0.041 ± 0.001	0.028 ± 0.003	0.036 ± 0.002	0.064 ± 0.005	0.05 ± 0.02	0.018 ± 0.001	0.028 ± 0.002	0.08 ± 0.03	0.033 ± 0.003
	Rb	(5.4 ± 0.6)10 ⁻³	0.002 ± 0.001	ne	(1.9 ± 0.3)10 ⁻³	0.008 ± 0.002	0.008 ± 0.001	0.033 ± 0.007	0.003 ± 0.002	0.019 ± 0.003
	Cs	n.e.	n.e.	n.e.	n.e.	(1.2 ± 0.3)10 ⁻³	(5 ± 4)10 ⁻⁴	(1.8 ± 0.4)10 ⁻³	n.e.	(7.29 ± 0.03)10 ⁻⁴
	Tl	(5 ± 2)10 ⁻⁵	ne	n.e.	(8 ± 2)10 ⁻⁵	(4.3 ± 0.9)10 ⁻⁵	n.e	(1.2 ± 0.4) 10 ⁻⁴	ne	ne
	Hg	(2 ± 1)10 ⁻⁴	(1.7 ± 0.1)10 ⁻⁴	(2.1 ± 0.2)10 ⁻⁴	(4 ± 1)10 ⁻⁵	(1.1 ± 0.2)10 ⁻³	(3.5 ± 0.3)10 ⁻⁴	(1.08 ± 0.08)10 ⁻³	(5.7 ± 0.8)10 ⁻⁴	(6.0 ± 0.4)10 ⁻⁴
	Total	123 ± 7	98 ± 4	81 ± 4	62 ± 9	184 ± 20	205 ± 35	384 ± 97	167 ± 23	182 ± 8

n.e. notation indicates that these measurements could not be estimated.