

Supplementary Materials

UPLC–MS/MS Identification of Sterol Sulfates in Marine Diatoms

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Table S1. Distribution of StS in diatom species examined: comparison of StS retention time with deuterated standard (CHOS-d = m/z 472.3) and synthetic derivatives.

Samples m/z (StS)	<i>C. scutellum</i>	<i>Diploneis</i> sp.	<i>N. Shiloi</i>	<i>C. closterum</i>	<i>C. cryptica</i>	<i>S. marinoi</i>	<i>P. tricorutum</i>	<i>T. pseudonana</i>	<i>T. rotula</i>	Synthetic StS				
472.3 (CHOS-d)	5.24	5.41	5.27	5.22	5.20	5.16	4.96	5.05	5.02	5.21	5.25	5.26	5.25	5.24
463.3 (desmosterol sulfate)				4.80			4.68			4.82				
465.5 (cholesterol sulfate)						5.16								
477.3 (24-methylene cholesterol sulfate)	5.19				5.13	5.10	5.19	5.02	4.97					
477.3 (brassicasterol sulfate)	5.59	5.60	5.52							5.51				
479.3 (24-methyl cholesterol sulfate)					5.84	5.77		5.57	5.49		5.85			
491.3 (fucosterol sulfate)			5.76			5.80					5.82			
491.3 (stigmasterol sulfate)													6.28	
493.3 (Δ^5 -sitosterol sulfate)						6.33								6.45

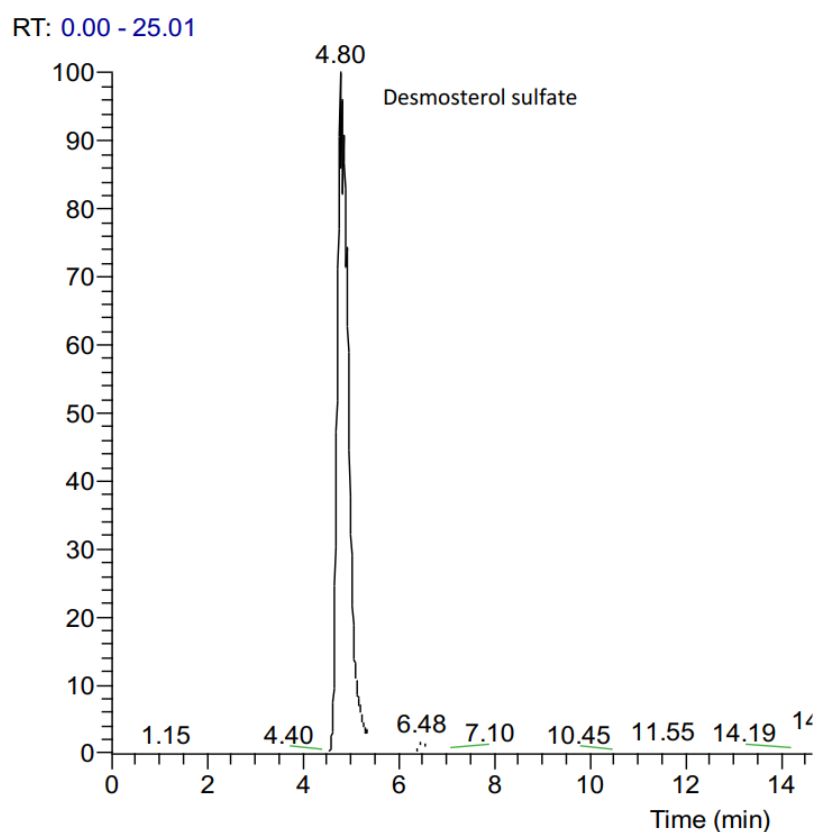


Figure S1. Chromatograms of StS content of *C. Closterum* (ion extract at m/z 463.3).

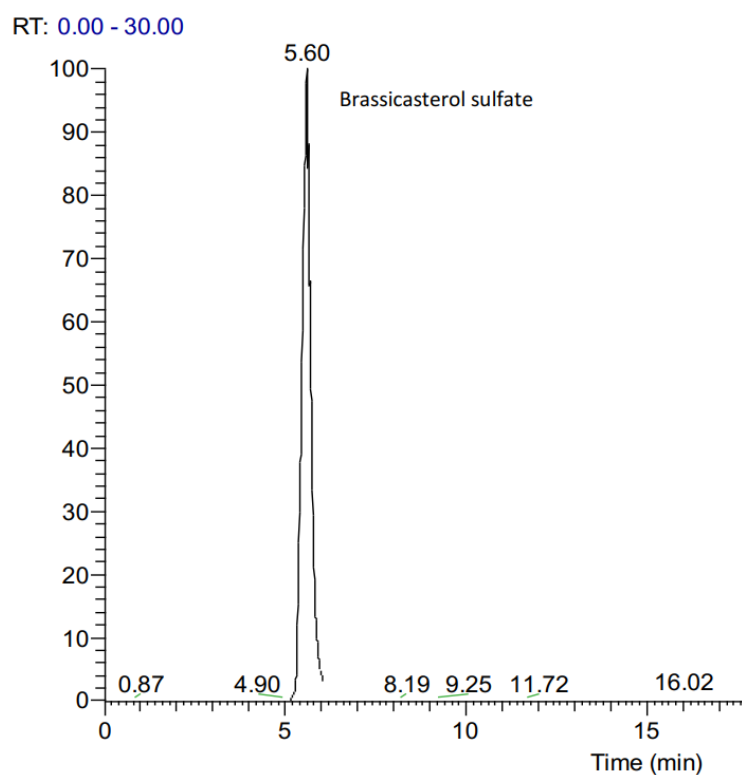


Figure S2. Chromatograms of StS content of *Diploneis sp.* (ion extract at m/z 477.3).

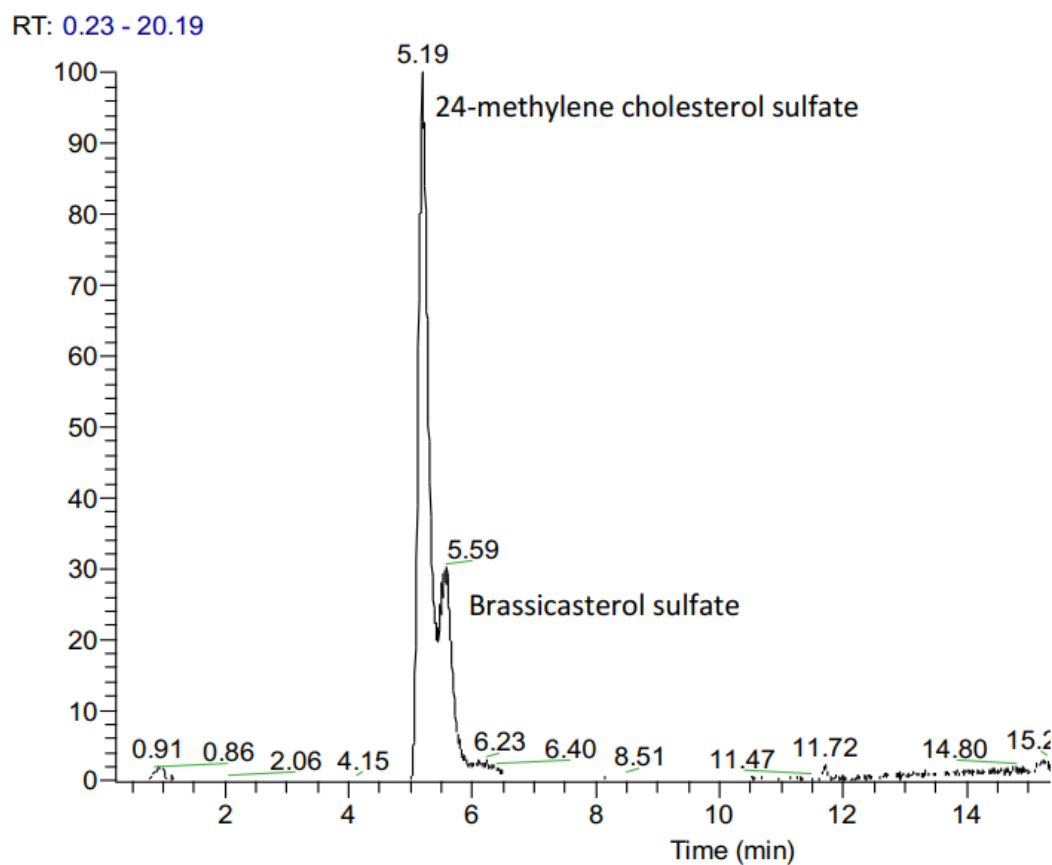


Figure S3. Chromatograms of StS content of *C. scutellum* (ion extract at m/z 477.3).

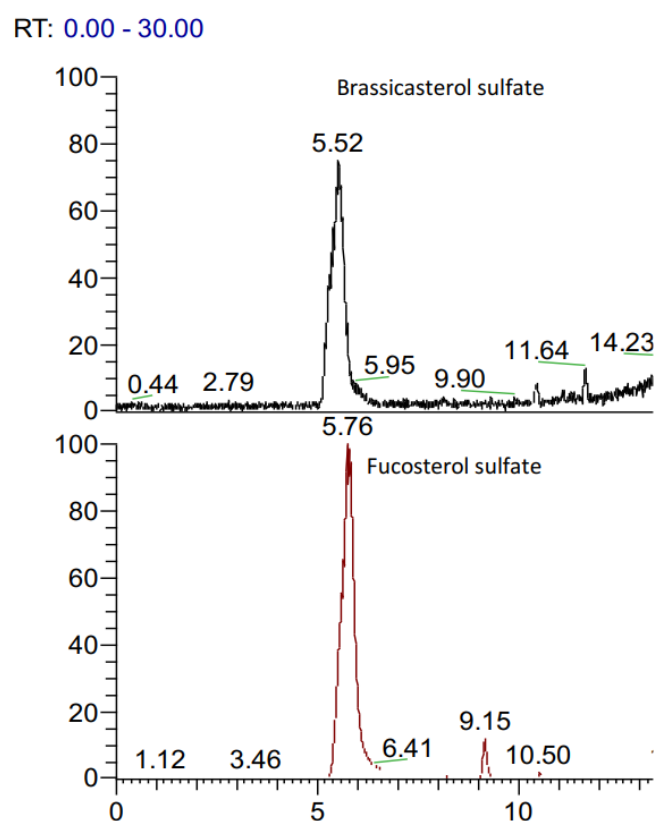


Figure S4. Chromatograms of StS content of *N. shiloi* (ion extract at m/z 477.3 and 491.3).

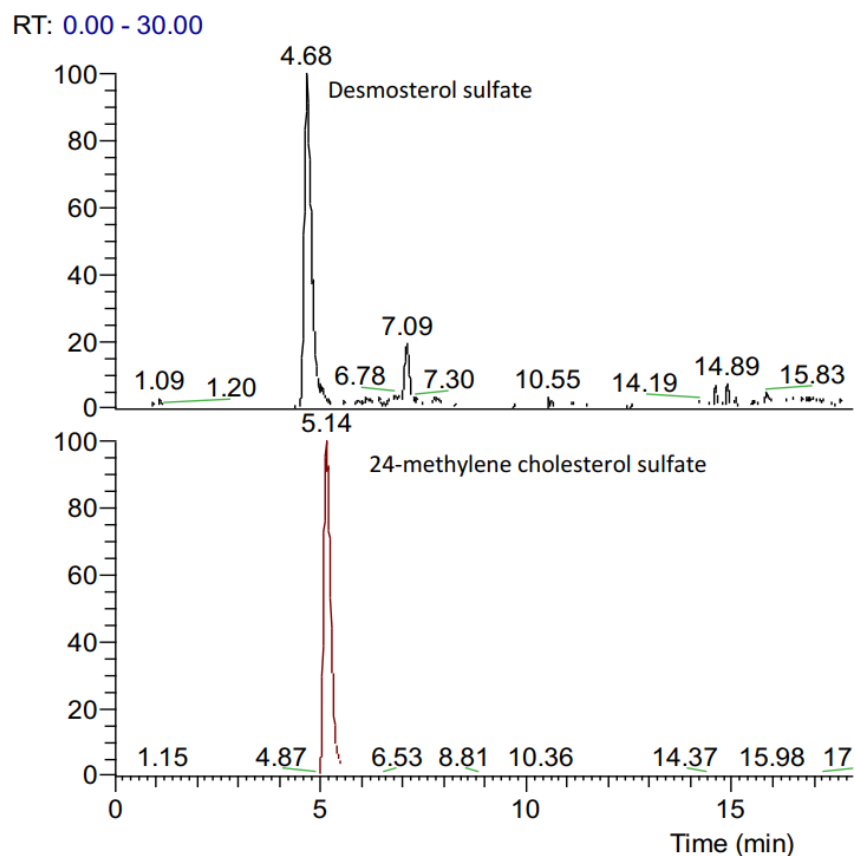


Figure S5. Chromatograms of StS content of *P. tricornutum* (ion extract at m/z 463.3 and 477.3).

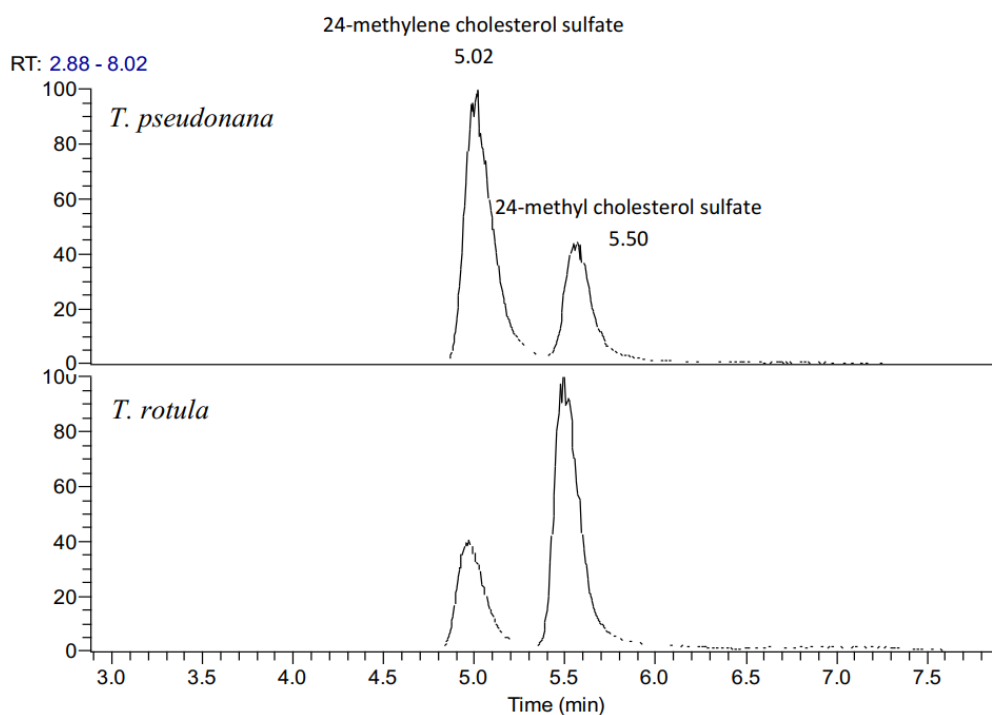


Figure S6. Chromatograms of StS content of *T. pseudonana* e *rotula* (ion extract at m/z 477.3 and 479.3).