**Supplementary Figures**

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**Fig. S1.** Fluorescence spectra of soluble EPS (SL-EPS) from *Chlorella sorokiniana* SDEC-18 cultivated in BG11 medium, freshwater medium (F+5%), and seawater-based media (Seawater, S+5% and S+15%) on the start day (0 d), 6th day (6 d) and 10th day (10 d).

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**Fig. S2.** Fluorescence spectra of loosely bound EPS (LB-EPS) from *Chlorella sorokiniana* SDEC-18 cultivated in BG11 medium, freshwater medium (F+5%), and seawater-based media (Seawater, S+5% and S+15%) on the start day (0 d), 6th day (6 d) and 10th day (10 d).