**Supplementary materials S2. Characterizing the status of energetic metabolism of dinoflagellate resting cysts under mock conditions of marine sediments via physiological and transcriptomic measurements**

**Table S1-1.** Information of nutrient concentrations
(Guillard, 1975)

| Component | Molar Concentration in Final Medium |
|---|---|
| $NaNO_3$ | $8.82 \times 10^{-4}$ M |
| $NaH_2PO_4 \cdot H_2O$ | $3.62 \times 10^{-5}$ M |
| $FeCl_3 \cdot 6H_2O$ | $1.17 \times 10^{-5}$ M |
| $Na_2EDTA \cdot 2H_2O$ | 1.17 × 10-5 M |
| CuSO4 $5H_2O$ | $3.93 \times 10^{-8}$ M |
| $Na_2MoO_4 \cdot 2H_2O$ | $2.60 \times 10^{-8}$ M |
| $ZnSO_4 \cdot 7H_2O$ | $7.65 \times 10^{-8}$ M |
| $CoCl_2 \cdot 6H_2O$ | $4.20 \times 10^{-8}$ M |
| $MnCl_2 \cdot 4H_2O$ | $9.10 \times 10^{-7}$ M |
| thiamine HCl (vit. $B_1$) | $2.96 \times 10^{-7}$ M |
| biotin (vit. H) | $2.05 \times 10^{-9}$ M |
| cyanocobalamin (vit. $B_{12}$) | $3.69 \times 10^{-10}$ M |

**Reference:**

Guillard, R. R. Culture of phytoplankton for feeding marine invertebrates. *Culture of marine invertebrate animals* **1975**, pp 29-60.