

**Modified SWM–3 (mSWM–3)**

NaNO <sub>3</sub>	17	mg
NaH <sub>2</sub> PO <sub>4</sub> · 2H <sub>2</sub> O	1.56	mg
Na <sub>2</sub> SiO <sub>3</sub> · 9H <sub>2</sub> O	5.68	mg
Na <sub>2</sub> EDTA · 2H <sub>2</sub> O	1.12	mg
Fe-EDTA	0.084	mg
Na <sub>2</sub> SeO <sub>3</sub>	0.0346	µg
P–1 metal	1	mL
Vitamin B <sub>12</sub>	0.2	µg
Vitamin mix S <sub>3</sub>	1	mL
Tris (hydroxymethyl) aminomethane	50	mg
Seawater	98	mL
pH 7.7–7.8		

**Reference**

Imai, I. 2012 High growth rates of the red tide flagellate *Chattonella marina* (Raphidophyceae) observed in culture. *Hokudai Suisan Ihou*, **62**, 71-74 (in Japanese with English summary).

**P– 1 metals**

H <sub>3</sub> BO <sub>4</sub>	618.3	mg
MnCl <sub>2</sub> · 4H <sub>2</sub> O	69.25	mg
ZnCl <sub>2</sub>	5.45	mg
CoCl <sub>2</sub> · 6H <sub>2</sub> O	238	µg
Distilled water	100	mL

1) In the NIES-Collection, CuCl<sub>2</sub> · 2H<sub>2</sub>O is removed.

**Reference**

Imai, I. 2012 High growth rates of the red tide flagellate *Chattonella marina* (Raphidophyceae) observed in culture. *Hokudai Suisan Ihou*, **62**, 71-74 (in Japanese with English summary).

## Media for marine and brackish water microalgae

### Vitamin mix S<sub>3</sub>

Thiamine HCl	5	mg
Nicotinic acid	1	mg
Calcium pantothenate	1	mg
<i>p</i> -Aminobenzoic acid	0.1	mg
Biotin	0.01	mg
Inositol	50	mg
Folic acid	0.02	mg
Thymine	30	mg
Distilled water	100	mL

### Reference

Provasoli, L. 1963 Growing marine seaweeds. In *Proceedings of the Fourth International Seaweed Symposium*, University of Tokyo Press, Tokyo, p. 9-17.