

## MGM

MG medium with pH adjusted to 6.5 by buffering with MES instead of HEPES.

### MG

Ca(NO <sub>3</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	2 mg
KNO <sub>3</sub>	10 mg
β-Na <sub>2</sub> glycerophosphate · 5H <sub>2</sub> O	3 mg
MgSO <sub>4</sub> · 7H <sub>2</sub> O	2 mg
Vitamin B <sub>12</sub>	0.01 µg
Biotin	0.01 µg
Thiamine HCl	1 µg
PIV metals	0.1 mL
Fe (as EDTA; 1:1 molar)	0.1 mL
HEPES	40 mg
Distilled water	99.8 mL
pH 7.2	

### Reference

Ichimura, T. 1973 The life cycle and its control in some species of *Closterium*, with special reference to the biological species problems. *Thesis D. Sci.*, University of Tokyo, 69 pp., 11 tables, 40 figs.

### P IV metals

Na <sub>2</sub> EDTA · 2H <sub>2</sub> O	100 mg
FeCl <sub>3</sub> · 6H <sub>2</sub> O	19.6 mg
MnCl <sub>2</sub> · 4H <sub>2</sub> O	3.6 mg
ZnCl <sub>2</sub> <sup>1)</sup>	1.04 mg
CoCl <sub>2</sub> · 6H <sub>2</sub> O	0.4 mg
Na <sub>2</sub> MoO <sub>4</sub> · 2H <sub>2</sub> O	0.25 mg
Distilled water	100 mL

1) In the NIES-Collection, 1.04 mg ZnCl<sub>2</sub> is replaced by 2.2mg ZnSO<sub>4</sub> · 7H<sub>2</sub>O.

### Reference

Provasoli, L., Pintner, I. J. 1959 Artificial media for fresh-water algae: problems and suggestions. In *The Ecology of Algae. Spec. Pub. No. 2.*, Eds. by Tryon, C. A., Jr. & Hartmann, R. T., Pymatuning Laboratory of Field Biology, University of Pittsburgh, Pittsburgh, p. 84-96.

Media for freshwater, terrestrial, hot spring and salt water algae

**Fe (as EDTA; 1:1 molar)**

Fe(NH <sub>4</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	70.2 mg
Na <sub>2</sub> EDTA · 2H <sub>2</sub> O	66 mg
Distilled water	100 mL

1 mL of this solution contains 0.1 mg Fe.

**Reference**

Provasoli, L. 1966 Media and prospects for the cultivation of marine algae. In *Cultures and Collections of Algae*, Eds. by Watanabe, A. & Hattori, A., Proc. U.S.-Japan Conf., Hakone, Sept. 1966., Jpn. Soc. Plant Physiol., p. 63-75.