

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

### CSi/5

Dilute CSi medium with distilled water to 1/5.

### CSi

C medium with pH adjusted to 7.0 by buffering with 50mg HEPES instead of Tris (hydroxymethyl) amino-methane. Thereafter, 10 mg  $\text{Na}_2\text{SiO}_3 \cdot 9\text{H}_2\text{O}$  is added.

### C

$\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$	15 mg
$\text{KNO}_3$	10 mg
$\beta\text{-Na}_2\text{glycerophosphate} \cdot 5\text{H}_2\text{O}$	5 mg
$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	4 mg
Vitamin B <sub>12</sub>	0.01 µg
Biotin	0.01 µg
Thiamine HCl	1 µg
PIV metals	0.3 mL
Tris (hydroxymethyl) aminomethane	50 mg
Distilled water	99.7 mL
pH 7.5	

Add 1.5 g agar to 100 mL of medium to give a solid medium.

### Reference

Ichimura, T. 1971 Sexual cell division and conjugation-papilla formation in sexual reproduction of *Closterium strigosum*. In *Proceedings of the Seventh International Seaweed Symposium*, University of Tokyo Press, Tokyo, p. 208-214.

### P IV metals

$\text{Na}_2\text{EDTA} \cdot 2\text{H}_2\text{O}$	100 mg
$\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$	19.6 mg
$\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$	3.6 mg
$\text{ZnCl}_2$ <sup>1)</sup>	1.04 mg
$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	0.4 mg
$\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$	0.25 mg
Distilled water	100 mL

1) In the NIES-Collection, 1.04 mg  $\text{ZnCl}_2$  is replaced by 2.2mg  $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$ .

### 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.