

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

### URO + YT (1/10) + Wheat

Prepare as for 100 mL URO medium. Adjust to pH 7.5 with 0.1 mol/L HCl, and add 10 mg yeast extract and 20 mg tryptone (URO + YT (1/10)). Beforehand, sterilize wheat grains by dry heating (150°C, 30 min). Keep in a cool place. For use, add a grain of sterile wheat to 10 mL URO + YT (1/10) medium.

#### Reference

Yabuki, A., Nakayama, T., Yubuki, N., Hashimoto, T., Ishida, K-I. Inagaki, Y. 2011 *Tsukubamonas globosa* n. gen., n. sp., a novel excavate flagellate possibly holding a key for the early evolution in "Discoba". *J. Eukaryot. Microbiol.*, **58**, 319-331.

#### URO

NH <sub>4</sub> NO <sub>3</sub>	0.5 mg
$\beta$ -Na <sub>2</sub> glycerophosphate · 5H <sub>2</sub> O	0.4 mg
MgSO <sub>4</sub> · 7H <sub>2</sub> O	1 mg
CaCl <sub>2</sub> · 2H <sub>2</sub> O	1 mg
KCl	0.1 mg
Thiamine HCl	1 µg
Vitamin B <sub>12</sub>	0.01 µg
Biotin	0.01 µg
Fe-EDTA	0.05 mg
PIV metals	0.1 mL
Distilled water	99.9 mL
pH 7.5 <sup>1)</sup>	

1) pH is adjusted to 7.5 with 0.1 mol/L HCl.

#### Reference

Kimura, B., Ishida, Y. 1985 Photophagotrophy in *Uroglena americana*, Chrysophyceae. *Jpn. J. Limnol.*, **46**, 315-318.

Nakahara, H., Sako, Y. 1987 2. Life history of freshwater phytoplankton [2. Tansui syokubutsu purankuton no seikatsushii]. In *Freshwater red tide [Tansui Akashio]*, Ed. by Kadota, H., Kōseisyū-Kōseikaku, Tokyo, p. 21-77 (in Japanese without English title).

#### 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.

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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.