

## Media for protozoa

### SUY 1/10 + mTYGM-9 + Rice

Beforehand, sterilize polished rice by dry heating (150°C, 30 min). Keep in a cool place. For use, add 500 µL mTYGM-9 and a grain of sterile rice to 10 mL SUY 1/10 medium.

#### mTYGM-9

##### Pre-solution

K <sub>2</sub> HPO <sub>4</sub>	0.28 g
KH <sub>2</sub> PO <sub>4</sub>	40 mg
Casein Digest	0.2 g
Yeast extract	0.1 g
NaCl	0.75 g
Mucin, gastric	0.2 g
Distilled water	97 mL

Sterilize Pre-solution by autoclaving (121°C, 15 min), add aseptically 3 mL horse serum and 50 µL 10% Tween 80 dissolved in absolute ethanol (both filter-sterilized). Keep in a cool place.

#### SUY 1/10

Prepare as for 100 mL URO medium with seawater instead of distilled water. Add 1 mg yeast extract and 2 mg tryptone.

Indicated as "URO-1/10 YT" in reference.

#### Reference

Moriya, M., Nakayama, T., Inouye, I. 2002 A new class of the Stramenopiles, Placididea Classis nova: description of *Placidia cafeteriopsis* gen. et sp. nov. *Protist*, **153**, 143-156.

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### URO

NH <sub>4</sub> NO <sub>3</sub>	0.5 mg
β-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 seikatsushi]. In *Freshwater red tide [Tansui Akashio]*, Ed. by Kadota, H., Kôseisya-Kôseikaku, 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.

### 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.