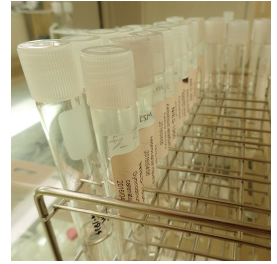


Nov 14, 2018

Antibiotic sensitivity test for dinoflagellates and Chromera

DOI

dx.doi.org/10.17504/protocols.io.vcke2uw



Yoshihisa Hirakawa¹, Hirokazu Sakamoto¹, Takashi Shiratori¹, Elisabeth Hehenberger², Nick Irwin², Patrick Keeling²

¹University of Tsukuba; ²University of British Columbia

Protist Research to Opti...



Yoshihisa Hirakawa

University of Tsukuba

OPEN  ACCESS



DOI: dx.doi.org/10.17504/protocols.io.vcke2uw

Protocol Citation: Yoshihisa Hirakawa, Hirokazu Sakamoto, Takashi Shiratori, Elisabeth Hehenberger, Nick Irwin, Patrick Keeling 2018. Antibiotic sensitivity test for dinoflagellates and Chromera. **protocols.io**

<https://dx.doi.org/10.17504/protocols.io.vcke2uw>

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: November 06, 2018

Last Modified: November 14, 2018

Protocol Integer ID: 17516

Algal culture

- 1 Seven dinoflagellate species (*Amphidinium carterae*, *Glenodinium foliaceum*, *Heterocapsa triquetra*, *Karlodinium veneficum*, *Prorocentrum minimum*, *Symbiodinium minutum*, and *Togula britannica*) and *Chromera velia* were grown in 75 mL plastic flasks with Daigo IMK (Nihon Pharmaceutical Co., Ltd.), f/2, or ESM medium. The culture condition was at 20°C, under white illumination (60 $\mu\text{mol photons/m}^{-2}/\text{s}^{-1}$) on a 14:10 light:dark cycle.

Antibiotic treatment

- 2 Precultured cells were transferred to 24-well plates, and an antibiotic drug (puromycin or zeocin) was added with different concentrations (0, 50, 100, 300 $\mu\text{g/mL}$). The cell density was 2,000 to 40,000 cells/mL at the starting point. The culture plates were incubated under the same condition described above.

Cell monitoring

- 3 The number of living cells was counted under a microscope using hemacytometer during a week.