

Diatom 7: 9-11 (英文)

阿知波英明：珪藻 *Licmophora* sp. の紅藻アサクサノリ培養ろ液中での増殖

Hideaki Achiha : The growth of *Licmophora* sp. in the filtrate from *Porphyra tenera* culture

Abstract

The effect of extracellular products in each growth stage of *Porphyra tenera* for the growth of *Licmophora* sp. was examined.

The unialgal culture was incubated at 15°C in 12 : 12h light-dark cycle and illuminated by cool white fluorescent lamps at 4,000~5,000lux. The results are as follows.

- 1) The growth was markedly promoted by the filtrate obtained from 0-31 days culture.
- 2) The exponential phase of the diatom was elongated by the filtrate from 31-55 days culture.
- 3) The mixed filtrates after 55-67 days (matured) were of no effect to the growth of *Licmophora* sp.

Key index words

growth *Licmophora*, *Porphyra tenera* filtrate, unialgal culture.