

Emiliana huxleyii

Note: The culturing conditions below are not necessarily the optimal growth conditions for each strain, as much variation is found between strains, and cultures are not always kept in optimal growth conditions at CCAP for practical reasons. There may be more info in the individual strain data on the website.

Culture Medium: f/20 (= f/2 medium diluted by 10)

Lighting: Cool white, or cool/warm white mix, fluorescent tubes, intensity of 30-40 $\mu\text{mol m}^{-2} \text{s}^{-1}$

Light Cycle: 12h light : 12h dark (for faster growth try 16h:8h)

Temperature: 15-20 degrees C (for faster growth, grow at 20-25 degrees C)

Sub Interval: Monthly (may vary depending on environment)

Culture Vessel: Glass tubes containing approx. 9ml culture; or glass flasks.

Culture Method:

Emiliana prefers low nutrient levels, we usually grow in diluted f/2 medium, either f/20 (f/2 diluted by 10), or f/10 (f/2 diluted by 5). If growth is poor, try standard f/2.

Liquid cultures:

Subculture by inoculating culture into fresh sterile medium in the ratio of 1:10, e.g. 5mls culture into no more than 50mls medium. If the culture is not in optimal condition or bacteria are obvious then 1:5 may be necessary. Particularly dense cultures can be added to slightly larger volumes of medium. Culture can be transferred by pouring or pipetting.

Use strict aseptic techniques throughout and if possible carry out all subculturing within a laminar flow cabinet.

ACDP Hazard Gp: 1 - Non pathogenic / non hazardous. Unlikely to cause human disease.