

## ***Macrocystis pyrifera* (gametophytes)**

**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.

**On receipt of culture:** cultures should be subcultured into fresh sterile medium as described below, ideally within a few days of receipt. If the culture vessel is very full on receipt and subculturing cannot be done immediately, we advise transferring half of the culture to a sterile container to provide air space.

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

**Culture Medium:** Modified Provasoli medium (MP – full strength)

Media recipes can be found on our website: [www.ccap.ac.uk/index.php/media-recipes/](http://www.ccap.ac.uk/index.php/media-recipes/)

**Lighting:** Low/shaded light, we also place a thin paper towel over the flasks to diffuse the light further.

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

**Temperature:** 8 degrees C

**Sub Interval:** 3-6 months depending on growth (which is generally slow). Placing culture into fresh media every 2-3 weeks will give faster growth.

**Culture Vessel:** glass flasks

### **Culture Method:**

Subculture by adding gametophytes to fresh sterile medium – small clumps/balls can be transferred whole, larger clumps can be gently pulled apart with sterile tweezers.

Growth may be improved by placing flasks on an orbital shaker, on a gentle setting.

**Use strict aseptic techniques throughout and if possible carry out all subculturing within a laminar flow cabinet (particularly for axenic strains).**