Labyrinthulochytrium arkticum

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. Cultures on agar do not need subculturing immediately, and any culture remaining on the slope after subculturing will continue to grow.

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

Culture Medium: Optimal media is PmTG (see attached), however at CCAP we use MY75S agar plates with a layer of liquid seawater as we are unable to source peptonized milk. The culture can live on this medium.
Media recipes can be found on our website: www.ccap.ac.uk/index.php/media-recipes/

Lighting: No lighting required.

Light Cycle: -

Temperature: 8 degrees C

Sub Interval: 4-8 weeks (may vary depending on environment)

Culture Vessel: Petri dishes.

Culture Method:

Subculture by wash transfer.

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

ATCC medium: 1961 PmTG agar

Peptonized milk.....1.0 g

Tryptone (BD 211705).....1.0 g

Glucose.....5.0 g

Agar.....10.0 g

Seawater.....1.0 L

Autoclave at 121C for 15 minutes.

For freshwater organisms use distilled water.