Dermamoeba algensis

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.

Storing the cultures in natural daylight at room temperature should also be fine, providing they are kept out of direct sunlight.

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: JM medium, with *Tribonema* sp. as food source. The *Tribonema* is also grown in JM medium and extra can be added, but it is generally transferred along with the amoeba when subculturing.
Media recipes can be found on our website: www.ccap.ac.uk/index.php/media-recipes/

Lighting: Mix of cool and warm white fluorescent lighting (necessary for the algal food source).

Light Cycle: 12h light : 12h dark (or 16h:8h)

Temperature: 20 degrees C

Sub Interval: 8 weeks (at CCAP, may vary depending on environment)

Culture Vessel: 50ml tissue culture flask

Culture Method:

Prepare flasks with roughly 30ml fresh JM medium.

To inoculate the fresh medium, a dense culture is chosen from existing stocks. The state of the culture is ascertained by microscopic examination using an inverted microscope.

To subculture, pour around 10mls from the new flask to the inoculating culture. Gently agitate or use a pipette to evenly mix the cells (some may adhere to the bottom of the flask), then pour around 10mls back into the fresh media. The older culture will also contain some new media and can be kept as a backup.

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