Parvamoeba rugata

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.

Culture Medium: In CCAP we use NCL75S:NSW 2:1 (NSW = natural seawater); the original media is NCL90S (90% seawater), either is fine.

Lighting: Low lighting or dark (a light source is not required)

Light Cycle: 12h light : 12h dark

Temperature: 18-20 degrees C

Sub Interval: 4 weeks

Culture Vessel: Tissue culture flasks (this amoeba needs surface area to grow on)

Culture Method:

Cultures are grown in 30ml media in tissue culture flasks. To subculture, take a flask of culture and a flask of fresh sterile medium, pour some of the fresh media into the culture, swirl to suspend and evenly mix the cells, and then pour back into the new flask. Seal both the old and new flasks with parafilm.

As this subculturing method introduces fresh media into the original culture, it prolongs the life of the older culture which can be kept as a backup.

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.