



VERSION 1

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We use this protocol and it's working

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Lemnaceae (Duckweed) culturing protocol V.1

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Duckweed



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ABSTRACT

Protocol for culturing duckweed.

MATERIALS

1000 ml beaker
5x YMA
CaCl₂
5 Falcon tubes per line to culture
70% Ethanol In spray bottle
Pipetteman pipetter

Sterilisation and Setup

- 1 Spray down inside of biosafety cabinet with ethanol, including materials to be used.

YMA Media Preparation

- 2 To prepare 500ml of 1x YMA media in the biosafety cabinet pour 100 ml of sterile 5x YMA media into sterile cylinder.
- 3 Next add sterile H₂O till the beaker contains around 350 ml.
- 4 Next add 75 ml of CaCl₂ stock solution (sterile stock 1.5mg/ml).
- 5 Top off with sterile H₂O to 500 ml total volume.
- 6 Add 500 µL of 1000x stock solution of MgSO₄ x 7H₂O (150mg/ml, filter sterilized) to media. Transfer prepared media to a sterile bottle and mix by inverting the bottle a few times.