Sep 24, 2019

Hornwort sporophyte induction -OXF V.1

Eftychis Frangedakis[1]

[1]University of Cambridge

1 Works for me dx.doi.org/10.17504/protocols.io.4x4gxqw

Eftychis Frangedakis
University of Cambridge, Plant Sciences , OpenPlant

1 To induce sporophytes, plants were grown for one month in petri dishes on Lorbeer's medium.

2 Afterwards, plants were transferred to Magenta pots on 1/10 Knop medium (2.5 g/L K2HPO4, 2.5 g/L KH2PO4, 2.5 g/L KCL, 2.5 g/L MgSO4.7H2O, 10 g/L Ca(NO3)2.4H2O, 37 mg/L FeSO4.7H2O) at pH 6.2 and containing 0.7% (w/v) agar.

3 Pots were then placed in a Panasonic MLR-352 Versatile Environmental Test Chamber (16oC, 16 h of light and 8 h of dark, 1500 lux light intensity).

4 After approximately one month, antheridia started to appear and after one more month sporophytes emerged.