Pour plating protocol for Emiliania huxleyi (single colonies)

Inbal Nussbaum,Daniella Schatz

Abstract

A protocol for generating single colonies of Emiliania huxleyi embedded in soft-agarose.

Citation: Inbal Nussbaum,Daniella Schatz Pour plating protocol for Emiliania huxleyi (single colonies). **protocols.io** dx.doi.org/10.17504/protocols.io.p4ydqxw
Published: 14 May 2018

Protocol

Step 1.
Autoclave 75 mL DDW with 0.75 g agarose

Step 2.
For 300 mL (= 7 plates): heat 225 mL FSW in a 50 °C water bath.

Step 3.
Cool autoclaved agar to 50 °C, mix with heated FSW, add F/2 stock and antibiotics if necessary. Swirl/mix well.

Step 4.
For each sample, pour 40 mL of FSW-agar mixture to a 50 mL conical tube.

Step 5.
Move to 32 °C bath.

Step 6.
Prepare the cells at desired cell concentration. For each sample prepare 0.5ml cells.

Step 7.
Lay out plates.

Step 8.
When you are ready, remove FSW-agar mix from 32 °C bath and allow to cool 1-2 degreesCritical: the mixture will start to solidify at 27-28 °C.

Step 9.
Add cell suspension to each tube, mix gently, then pour into plates.

Step 10.
Let solidify to a loose consistency

Step 11.
Transfer to growth room. Single colonies should appear within 10 days (without selection).