Symbiodinium / Aiptasia cell pop (crude lysis for PCR template)

Anthony Bellantuono

Abstract

This protocol lyses symbiodinium cells with heat and pellets debris, producing material suitable as crude DNA template for robust PCRs. It is convenient for rapid strain identification from liquid cultures and from *Symbiodinium*-hosting Aiptasia anemones.

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Protocol

Step 1.

Pellet 500 µl of dense culture or one small Aiptasia anemone in a microcentrifuge tube by centrifuging at 10,000 rcf for 1 minute. Discard supernatant.

Step 2.

Resuspend pellet in 200 µl TE (10 mM Tris, 0.1mM EDTA, pH 8.0).

Step 3.

Heat for 10 minutes in an Eppendorf Thermomixer at 95°C with agitation (700 rpm). Alternatively, boil for 10 minutes.

Step 4.

Centrifuge at 10,000 rcf for 1 minute. Place on ice.

Step 5.

The supernatant can be used as-is for PCR template with robust polymerase mixes. Typical use is 1 µl of supernatant in a 25-50 µl reaction.