

Oct 18, 2018

Synchronization via Bleaching (Spot Bleaching) protocol

DOI

dx.doi.org/10.17504/protocols.io.uteewje

Priota Islam¹

¹Imperial College London

Behavioural Genomics



Priota Islam

Imperial College London

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.uteewje>

Protocol Citation: Priota Islam 2018. Synchronization via Bleaching (Spot Bleaching) protocol. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.uteewje>

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited



Protocol status: Working

We use this protocol and it's working

Created: October 18, 2018

Last Modified: October 18, 2018

Protocol Integer ID: 16966

Keywords: synchronization via bleaching, spot bleaching, bleaching, synchronization, scale egg prep, egg, worm, bacterial contaminant, yeast, protocol

Abstract

If you only need a small number of semi-synchronized worms or if you simply need to remove yeast or bacterial contaminants, this protocol is easier and less time-consuming than the full-scale egg prep. This procedure is also called 'spot bleaching'.

Materials

MATERIALS

 Sodium Hydroxide Fisher Scientific Catalog #BP359500

 Sodium Hypochlorite Solution

2X Bleach solution:

Sodium hypochlorite solution - 4ml

Millipore water - 3.5 ml

NaOH solution - 2.5 ml

TOTAL - 10 ml

Troubleshooting



- 1 Pipette ~20 μ L of the 2X bleach solution onto the unseeded portion of a new plate.
- 2 Pick approximately 10 gravid adults from the contaminated plate with a metal pick and place into the bleach solution on the clean plate. Try to avoid bringing too much bacteria with the worms. (It is best to pick twice to ensure a good number of gravid is picked)
- 3 After about 10 minutes, the worms should break open and release the bleach resistant eggs.
- 4 Leave the plate right side up overnight at 20° C.
- 5 The next day, check to see that L1s have hatched
- 6 Pick about 10 L1s onto a new seeded plate and continue growing them as desired.