Synchronization via Bleaching (Spot Bleaching) protocol

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Working

Behavioural Genomics

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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'.

PROTOCOL STATUS

Working

We use this protocol in our group and it is working

MATERIALS

NAME	CATALOG #	VENDOR
Sodium Hydroxide	BP359500	Fisher Scientific
Sodium Hypochlorite Solution		Contributed by users

MATERIALS TEXT

2X Bleach solution:
Sodium hypochlorite solution - 4ml
Millipore water - 3.5 ml
NaOH solution - 2.5 ml
TOTAL - 10 ml

1 Pipette ~20µL 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.