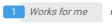




# Cristian Riccio<sup>1</sup>

<sup>1</sup>Wellcome / Cancer Research UK Gurdon Institute

C. elegans bleaching solution preparation V.2



dx.doi.org/10.17504/protocols.io.5jdg4i6



# ABSTRACT

The C. elegans bleaching solution is used for several purposes:

- destroying and removing bacterial or fungal cells from a contaminated *C. elegans* population. This is possible because *C. elegans* eggs are resistant to the bleaching used in this protocol but most fungi and bacteria are not.
- synchronising a *C. elegans* population consisting of worms at different developmental stages. This is possible because eggs are resistant to the bleaching used in this protocol but hatched worms (larvae and adults) are not.

### **GUIDELINES**

The bleaching solution can be kept at room temperature for one month.

### MATERIALS

NAME Y	CATALOG #	VENDOR
Disposable gloves, nitrile		
sodium hydroxide 10 M	View	
DEPC water	View	
Sodium hypochlorite solution	239305-500ML	Honeywell International Inc.
50 ml Falcon tube	View	

# MATERIALS TEXT

 $Make sure to use this exact so dium \ hypochlorite \ solution \ or \ one \ with \ the \ same \ so dium \ hypochlorite \ concentration.$ 

## SAFETY WARNINGS

Sodium hypochlorite and sodium hydoxide are highly toxic and should be handled with care, wearing a lab coat and goggles. Read relevant information.

# BEFORE STARTING

Prepare the bleaching solution.

Get a plate of gravid (= pregnant) worms or a plate with lots of unhatched eggs if you want to carry out an egg prep.

1 Add 42 ml DEPC water to a 50 ml Falcon tube.

2 Add 3 ml 10 M NaOH

3m

3m

1

- 3 Add 5 ml sodium hypochlorite solution
- 4 See relevant protocol for details but 6 ml of bleaching solution for 5 minutes on a vortex in 14 ml tubes should be sufficient to dissolve worms and spare eggs.
- 5 The bleaching solution can be kept at room temperature for one month.

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