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Hamster infestation with cercariae

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1 Works for me



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ABSTRACT

This protocol describes the steps, materials and precautions needed for infecting hamsters with schistosome cercariae. Note that the use of vertebrates for research needs to be approved by the Institutional Animal Care and Use Committee (IACUC). Refer to your local IACUC for more information.

PROTOCOL CITATION

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KEYWORDS

Infection, rodents

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MATERIALS TEXT

Glassware:

- Beakers
- Dishes
- Jar
- Pot
- Thinned pipettes
- Suckers

Solutions:

- Alcohol 70°
- TBRI water

SAFETY WARNINGS

Use lab coat and gloves

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1 Shed cercariae from snails during 2h under light in TBRI water

2h

2 Discard the shedding water in a new beaker

30m

- 3 Shed cercariae from snails again during 2h under light in new TBRI water 2h
- 4 Transfer the water in a new dish 1m
- 5 Get the hamster 15m
- 6 Wet the hamster in jar containing hot water (~30°C). BE CAREFUL to keep always the same individuals together (no mix from different cages) 10m
- 7 Take 1,000 cercariae with thinned pipette and depose them in the pot will receive the hamster 30m
- 8 Add water in the pot if necessary 2m
- 9 Put the hamster in the pot and label the pot correctly (note the number of the cage and the strain used for the infestation) 5m
- 10 Wait 2h minimum 2h
- 11 Put the hamster in the cage. BE CAREFUL to keep always the same individuals together (no mix from different cages) 15m
- 12 Wait until the hamsters were dried and go back to the animal room

13 Discard the biohazard materials in appropriate containers

30m