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🌐 Anti-condensation agent

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Protocol status: Working

We use this protocol and it's working

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Abstract

Preventing plate lids from fogging up by applying an anti-condensation agent. This allows longer recordings of e.g. worm behaviour.

Materials

50 mL test tube

Sterile water

99% ethanol

Triton X-100



Safety warnings

Triton X-100

Pictograms:

- GHS05, GHS07, GHS09

Hazard statements:

- H302 Harmful if swallowed
- H318 Causes serious eye damage
- H411 Toxic to aquatic life with long lasting effects

Ethanol

Pictograms:

- GHS02, GHS07

Hazard statements:

- H226 Flammable liquid and vapour.
- H319 Causes serious eye irritation.

Before start

Make sure to treat lids that are for use at least a day after treatment.



Making anti-condensation agent

- 1 Make a mixture of 0.05% Triton X-100 and 20% ethanol in a 50 mL test tube.

For 20 mL, mix:

🧴 4 mL 99% ethanol

🧴 0.1 mL Triton X-100

🧴 16 mL sterile water

Treating plate lids

1h 0m 30s

- 2 Treating lids with the anti-condensation agent **should be done at least a day before using the plates** to study worm behaviour.
- 3 In a Class II Microbiological Safety Hood, pour ca. 🧴 3-4 mL of the anti-condensation agent on the inside of the lids and leave for ⌚ 00:00:30 seconds .

30s

Ensure all of the lid is covered by the anti-condensation agent.

- 4 Pour the liquid back into the 50 mL tube for later use, or onto new lids to be treated.

- 5 Leave lids to dry for ca ⌚ 01:00:00 hour .

1h

- 6 After drying, you will most likely see rings of anti-condensation agent residue on the plate. Wipe these off the lids with Kimberly-Clark Kimwipes until there are no signs of these rings.

Protocol references

Brewster JD, "A simple micro-growth assay for enumerating bacteria", J Microbiol Methods. 2003 Apr;53(1):77-86.

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