Mar 31, 2020

Cleaning an OT-2 COVID-19 Diagnostic Station

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In Development dx.doi.org/10.17504/protocols.io.beb5jaq6

Opentrons COVID-19 Testing

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MATERIALS

NAME	CATALOG #	VENDOR
RNaseZap™ RNase Decontamination Solution	AM9780	Thermo Fisher Scientific
Distilled Water	15230071	Thermo Fisher
RNase AWAY™ Surface Decontaminant, 33.875 oz.	7003PK	Thermo Fisher
10% Bleach		

MATERIALS TEXT

The RNaseZap and RNase AWAY are interchangeable.

BEFORE STARTING

Consult the OT-2 glossary to make sure you understand the terminology used here. Different parts of the OT-2 are affected differently by cleaning agents, and some parts shouldn't be cleaned at all.

In particular, avoid:

- The X and Y rails and carriages.
- Pulleys and belts.
- Electronics, buttons, and switches.

Avoid spraying the OT-2 directly: the cleaning agents might go where you don't want them. Use something like a paper towel, instead.

1 Wipe these parts of the OT-2 down with a 1:10 dilution of bleach:
1. The clear polycarbonate windows.
2. The black pipette stems. (Avoid the rest of the pipettes, including the ejectors.)
3. The aluminum deck.
4. The removable black trash bin.

2 Wait **00:00:30** , then quickly rinse the bleach off with distilled water.

The aluminum on the OT-2 will be discolored if the bleach sits for too long. In the long term, it may also cause more serious corrosion.

Citation: Max Marrone (03/31/2020). Cleaning an OT-2 COVID-19 Diagnostic Station. https://dx.doi.org/10.17504/protocols.io.beb5jaq6

3 Wipe these parts of the OT-2 down with RNaseZap or RNase AWAY.

The same parts that you wiped down with bleach:
1. The clear polycarbonate windows.
2. The black pipette stems. (Avoid the rest of the pipettes, including the ejectors.)
3. The aluminum deck.
4. The removable black trash bin.

Plus these additional parts:
1. The bottoms of the pipette ejectors.
2. Any Temperature Modules or Magnetic Modules that the OT-2 has on its deck.
3. Any 96 well aluminum blocks that are going to be used on the OT-2.

4 Rinse the RNaseZap or RNase AWAY off with distilled water.

5 Wipe the OT-2 dry, or let the water evaporate.

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