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OGI Bio Liquid Control Tubing Cleaning

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Jack Hocking¹

¹OGI Bio

OGI Bio



Jack Hocking

OGI Bio

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Protocol status: Working

We use this protocol and it's working

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Disclaimer

The cleaning protocols provided by OGI Bio are intended as general guidelines for the maintenance of our micro bioreactor equipment. These protocols are designed to ensure optimal performance and longevity of the equipment under standard operating conditions.

OGI Bio assumes no liability for any damage, contamination, or malfunctions resulting from deviations from these protocols, improper use, or the use of incompatible cleaning agents or methods. It is the responsibility of the user to verify that all cleaning agents and procedures are compatible with local regulations, organizational standards, and the materials of the equipment in use.

Abstract

The protocol for the care and cleaning of your OGI BioReactor Liquid Control Tubing.

Guidelines

The tubing should be cleaned immediately after an experiment finishes to prevent fouling due to dry culture. The tubing should be replaced after **5** autoclave cycles.

Materials

-  70% Ethanol
-  Ultrapure Water

Equipment

Liquid Control Tubing	NAME
Accessory	TYPE
ÖGI Bio	BRAND
A200020	SKU
https://ogibio.co.uk/product/liquid-control-tubing/	LINK
ID/OD: 1 mm / 3 mm	SPECIFICATIONS

Before start

Ensure you have familiarised yourself with the guidelines and warnings for this protocol.

Cleaning

- 1 Immediately after an experiment, run the Pump Cleaning protocol on your OGI BioReactor by selecting Pump Cleaning > Start Cleaning in the BioReactor menu.
- 2 Put the input ends of the tubing (on the right-hand side of each pump) in a bottle with 70% ethanol, and the output ends in an empty bottle.
- 3 Follow the instructions on the LCD screen to turn the pumps on and pump ethanol through the tubing for at least 30 seconds.
- 4 Stop the pumps as instructed on the LCD screen and swap the bottle with ethanol for a bottle with ultrapure water.
- 5 Follow the instructions on the LCD screen to turn the pumps on and pump water through the tubing for at least 60 seconds.
- 6 Without turning the pumps off, remove the input ends of the tubing from the water and let the pumps run until there is no more fluid coming out of the output ends.
- 7 Follow the instructions on the LCD screen to stop the pumps.

Sterilisation

- 8 Prior to autoclave-sterilization, cover the ends of the tubing in tinfoil and secure with autoclave tape.
- 9 Autoclave at 121°C, do not remove the tinfoil covering the ends until the tubing needs to be used again. This ensures that the ends of the tubing remain sterile until use.
- 10 The tubing should be replaced after 5 autoclave cycles.