

SOP#:	Date Issued: 8/03	Date Revised: 7/08
TITLE:	Anaerobic Chamber	
SCOPE:	Research Personnel	
RESPONSIBILITY:	BORC staff	
PURPOSE:	To outline the proper procedures for use and maintenance of the Anaerobic Chamber.	

1 PURPOSE

This SOP explains how to apply Anaerobic Chamber in biomedical research such as microbiome studies, anaerobic microbiology research etc.

2 RESPONSIBILITY

It is the responsibility of the BORC staff to ensure that equipment is appropriately cleaned, maintained in good working order, and available for research personnel as requested.

3 BEFORE CONDUCTING YOUR EXPERIMENT

Check if the inner door is closed and airlock chamber is anaerobic (should read anaerobic on the airlock chamber screen).

4 PROCEDURES

4.1 Transfer items in through the airlock chamber.

- 4.1.1 Open the outer door to the airlock chamber by pulling the black handle out and rotating it upward.
- 4.1.2 Place the item in the chamber and close the outer door by holding the handle and rotating downward make sure the hook latches around the lock stud and push the handle in to lock.
- 4.1.3 Make sure the outer door is closed well. Now press PURGE button to make the chamber anaerobic. Once the screen reads Anaerobic, you can open the inner door and transfer the items from the small chamber into the working chamber.

4.2 Transfer items out through the airlock chamber.

- 4.2.1 Make sure the outer door is closed. Now you can open the inner door and transfer an item into the airlock chamber.
- 4.2.2 Close the inner door, once it is closed well you can open the outer door and take out the item.
- 4.2.3 Close the outer door and PURGE to make the airlock chamber anaerobic. Once it reads anaerobic you are done transferring.

5 MAINTENANCE

Check airlock seals, moisture trap on the pump and water reservoir on the dehumidifier periodically. If necessary, clean the airlock seals to remove dust, dirt and grime, drain any visible water collected on the trap, remove water from water reservoir but leave some water so the hose is submerged.

6 REFERENCES

Refer to the manufacturer's manual for additional information.

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