

Isoflurane rodent rebreathers: Nose cone with waste gas scavenging canister - Guidelines for best practice

WEIGH charcoal canister BEFORE use!



Charcoal canisters are used to absorb waste isoflurane gas. Weigh the canister before the first use to give starting weight and record on the side of the canister.

Record current WEIGHT of the canister **BEFORE your anesthesia session**, this will help to protect **YOU** from waste gases. Add date and weight to side of canister.

Discard the canister when it reaches 50 grams increase from the initial weight.

Isoflurane from the machine

Isoflurane Machine Operation:

- Check liquid isoflurane level for sufficient supply.
- Open green oxygen gas tank by turning wrench counter-clockwise ½ turn only.
- Check O₂ level on tank gauge for sufficient supply.
- Check where gas flow is going to be directed.
- Place rodent in chamber and turn O₂ to **1.0L/min** on oxygen flow meter. This can be increased to 1.5L if needed.
- Turn on vaporizer and set isoflurane to 2-3% for induction. Anesthesia maintenance may be less.

- Once animal is anesthetized in chamber, open valve to nose cone, place animal nose into cone. Take care to not scratch the animal's eyes on edges of cone. Use ointment to protect eyes.

- At end of use, make sure to shut off the green O₂ tank.
- Clean off the nose cone with sanitizer spray.
- Clean out the chamber, wash with soap and water.

Contact OLAC for certification by OLAC staff for you to use an isoflurane machine, and any questions on training:

(510) 643-9667 - olactraining@berkeley.edu

General questions to OLAC Administrative Office:

(510) 642-9232 - olac@berkeley.edu

Please see OLAC website for:

Research Service Request - Isoflurane machine rental from OLAC (select "Equipment Rental") - <https://olac.berkeley.edu/research-service-request>

- Please give at least 2 business days notice for rentals

Pharmacy Orders - <https://olac.berkeley.edu/pharmacy-purchase-request>

Non-urgent Vet staff inquires: olac_vetstaff@berkeley.edu

**If you need emergency veterinary assistance
(24-hours & weekends), please call:**

510-643-VETS

(510-643-8387)