

## RODENT EUTHANASIA INSTRUCTIONS

### **Building Supplied CO<sub>2</sub>**

For more detailed step-by-step instructions, please refer to the Guidelines for Rodent Euthanasia Procedures for Investigative Personnel (animalcare.umich.edu/rodent-euth)

### **CAGES MUST BE LABELED WITH:**

PI Name Protocol Number Shortcode ab Contact Information



Until euthanasia is confirmed by secondary, physical means





## REMEMBER, IF CONSOLIDATING MICE OR RATS FOR EUTHANASIA:



Do not consolidate rodents except for mice or rats



Follow standard housing densities when consolidating rodents (except mice) for euthanasia



No more than 10 mice in a standard mouse (#1) cage or 25 mice in a large mouse / small rat (#3) cage



Provide ample space for animals to move and assume normal postures if using your own euthanizing chamber



Start the procedure **no more than 10 minutes** after the animals have been consolidated





# CARBON DION

STEP 01

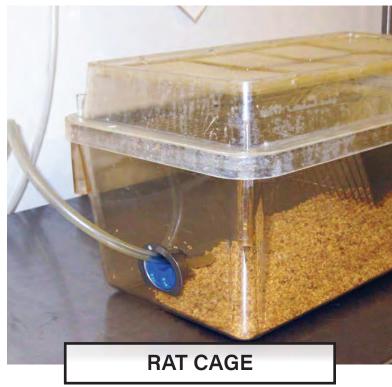
The flow meter (1) should be at zero

The supply valve (2) and flow meter (3) should be turned off (all the way clockwise)





# **MOUSE - SMALL**



Insert the CO<sub>2</sub> hose through the water bottle grommet on the cage lid

OR

through the lixithole in the back of the cage





# Keep Area Clea Test All Emergen CARBON DION

Turn supply valve (1) to the left or counterclockwise to turn on the CO<sub>2</sub>







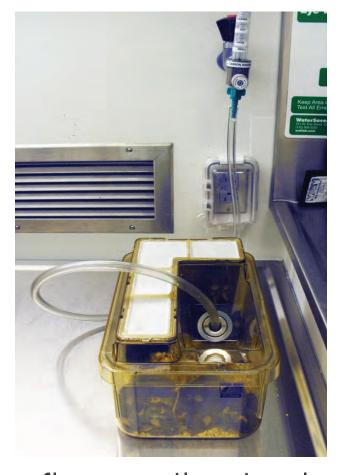
### ARGE Keep Area Clear All Emerge Keep Area -SMALL-Test All Eme -SMALL-**BLACK** is for RAT #3 cages INSET **GREEN** is for CARBON DIO LARGE MOUSE #3 cages **BLUE** is for **SMALL MOUSE #1** cages

Adjust CO<sub>2</sub> flow into the cage by turning regulator knob (1) slowly

Until the gauge (floating black ball)
(2) reaches the desired color line







Allow gas to flow until animals are no longer moving or breathing

You **MUST** remain with your animals until death is confirmed by a secondary means









# Keep Area Cli -SMALL-CARBON DION



Note that gauge (2) is falling back to zero now





# -SMALL see picture inset



Gauge should now be set at zero with no more CO<sub>2</sub> flowing

After gauges reach zero ensure flow meter valve (1) is shut off by turning it clockwise until snug

Do **NOT** overtighten











STEP 08

Check your protocol for approved secondary euthanasia method

**ALWAYS** perform a secondary, physical method to ensure euthanasia is effective





## STEP 09





DATE:	_
PI NAME:	_
NDIVIDUAL:	_

After you have confirmed death by a secondary, physical means

Put carcass in a glove or opaque bag

Label with PI name, date, and name of individual conducting euthanasia









Place in appropriate bin within carcass cooler







### **QUESTIONS?**

Contact your ULAM Faculty Veterinarian and/or your facility's ULAM Husbandry Supervisor

Bookmark and review the rodent euthanasia guidelines on Animal Care A-Z (<u>az.research.umich.edu/node/1016</u>)

We want to acknowledge that the ethical cost of using animals in research may cause some individuals emotional distress, especially if they perform euthanasia as part of their occupational/research duties.

If you think you may be struggling with what is commonly referred to as "compassion fatigue," there are resources that can help.

Visit <u>animalcare.umich.edu/cap</u> or email <u>compassionawareness@umich.edu</u> to learn more about our Compassion Awareness Project.

