

CO₂ EUTHANASIA OF MICE IN-PERSON TRAINING

UNIVERSITY OF SOUTH FLORIDA

COMPARATIVE MEDICINE

Attendee Name: _____
Print Sign Date

Discuss/Review:

- Carbon Dioxide (CO₂) gas cylinders are dark gray in color (oxygen gas cylinders, used to deliver isoflurane anesthesia to mice, are green in color).
- Compressed gas tank cylinders are the only acceptable CO₂ source for euthanasia of mice.
- Neonatal mice are naturally resistant to this method of euthanasia.
- Prefilling a chamber with CO₂ is not acceptable.

Demonstrate/Assess:

- Compressed gas tank cylinders have a valve to which a pressure-reducing regulator is attached.
- The flow meter ensures an appropriate displacement rate of air inside the enclosure, displacing 10-30% of the chamber volume per minute.
- Euthanasia of more than one mouse at a time must be performed in cohorts of only live animals.
- Mice should be euthanized in their home cage, whenever possible.
- CO₂ can be delivered directly into a primary enclosure.

Primary Enclosure

- Blue line