

STANDARD OPERATING PROCEDURE

This Standard Operating Procedure (SOP) describes methods for anesthetizing hamsters.

2. RESPONSIBILITY

Principal Investigators (PIs) and their research staff, veterinary care staff, covering t
providing a heat source until the animal has recovered from anesthesia. Car
burn the animal.

3. INTRODUCTION

3.4. Never leave an anesthetized animal unattended.

4. MATERIALS

- 4.1. Material or equipment to provide or conserve body heat: heating disc, warming pad or warm-water circulating pad. Do not use electric heating pads unless specifically designed for use with laboratory rodents.
- 4.2. Ophthalmic ointment (natural tears)
- 4.3. Gas anesthesia machine (calibrated within the last 12 months) with adequate gas scavenging system or filter
- 4.4. Induction chamber constructed of a see-through material (glass, polycarbonate, etc.)
- 4.5. Rodent anesthesia nosecone or mask
- 4.6. Isoflurane
- 4.7. Ketamine (100mg/mL) *Controlled drug
- 4.8. Xylazine (20mg/mL)
- 4.9. Acepromazine (10mg/mL)
- 4.10. Atipamezole (5mg/ml)

- 5.1.2.4. Apply ophthalmic ointment (natural tears) to both eyes to prevent dryness and damage to the cornea. Reapply as needed.
- 5.1.2.5. Continuously monitor the animal during anesthesia and adjust the level of isoflurane as needed according to monitored parameters:
 - 5.1.2.5.1. Presence of reflexes/response to stimuli (pedal withdrawal reflex)
 - 5.1.2.5.2. Respiratory rate and breathing pattern
 - 5.1.2.5.3. Mucous membrane color surrounding the nose and mouth (should remain pink)

5.1.3. Recovery:

- 5.1.3.1. Turn off the isoflurane vaporizer flush the system and keep the animal on oxygen.
- 5.1.3.2. Transfer animal to their cage once it begins to move and allow to recover fully (sternal position).
- 5.1.3.3. Provide supplemental heat during the recovery period.

5.152. Ketamine/Xylazine (Acepromazine) anesthesia (F5.2.3) (.)TJ 0 Tc 0 T5.301-130 Td [(P)57.12.3u 24.108 0 2 9 >>BDC

SOP REVISION HISTORY

DATE	NEW VERSION
2016.01.15	Addition of Rodent Procedure Log (annex)
2016.03.16	5.2.1 Injectable anesthetic dose can vary with the sex, the age, the strain, and the body condition of the animal. 5.2.2 Contact your veterinarian for advice on the appropriate dose prior to use.
2020.05.20	3.3. Heat loss is rapid in anesthetized rodents. Keep animals warm by covering them (e.g. gauze pad or towel) and/or providing a heat source until the animal has recovered from anesthesia. Care should be taken to not overheat or burn the animal.
2020.05.20	4.5 Rodent anesthesia nosecone
2020.05.20	4.10. Atipamezole (5mg/ml)
2020.05.20	5.1.1.1.

Rodent Procedure Log

Investigator:	Protocol:
Procedure:	Performed by:

Instructions: complete this log for rodent procedures requiring anesthesia, analgesia or post-procedure care (ex. surgeries, experimental infection). Keep the log in the housing room while

ANALGESIA

carprofen: hamster: 20mg/kg, every 24 hrs

buprenorphine: hamster: 0.1mg/kg SC or IP every 4-8 hrs