

## Standard Operating Procedure

SOP Number: **02-18-5813**

Service: **Research**

Operating Section: **IACUC**

Unit: **LUC/HSD**

Title: **Blood collection in Rodents and Rabbits**

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### Purpose:

To outline IACUC guidelines for blood retrieval in rodent and rabbits.

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### Procedure:

- 1) Rodents:
  - a) Retro-orbital bleeding - (general or topical anesthesia required).
  - b) Cardiac puncture- (general anesthetic, terminal procedure only).
  - c) Tail vein or artery:
    - (1) Venipuncture (needle and syringe)
    - (2) Incision with scalpel (topical or general anesthetic)
    - (3) Snip off tip of tail (cannot penetrate bone) (general anesthesia required for animals greater than 3 weeks of age; postoperative hemostasis required).
  - d) Saphenous venipuncture or other sites may be employed.
  - e) Mandibular vein.
- 2) Rabbits:
  - a) Laceration of ear and use of xylene are not allowed.
  - b) Cardiac puncture (general anesthetic, terminal procedure only).
  - c) Marginal ear vein or central auricular artery by phlebotomy [(0.1 ml acepromazine administered for vasodilation and sedative is recommended)].
- 3) Blood collection volume and frequency:
  - a) No more than 15% of the animal's total blood volume should be collected at any one time unless the blood collection is terminal.
  - b) Bleeding frequency may not exceed 15% volume taken every two weeks. Smaller volumes can be obtained at more frequent intervals, but combined volume should not exceed a total of 15% every two weeks.
  - c) Total blood volumes/species - Maximum withdrawal

- d) rabbit - 59 ml/kg 6-9 ml/kg
- mouse - 78 ml/kg 8-10 ml/kg
- rat - 67 ml/kg 7-10 ml/kg

Any deviation from the above must be scientifically justified in an IACUC approved protocol.

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**Comments:**

None

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<b>Responsible Official Signature</b>			<b>Date</b>
<b>QA Signature</b>			<b>Date</b>
<b>Version</b> #2	<b>Effective Date</b>	<b>Supersedes</b> #1	<b>Original Date</b> 05/31/01