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Queen's University

Principal Investigators, Research Staff, Veterinary Staff

The purpose of this Standard Operating Procedure (SOP) is to describe the methods of cardiac blood collection in mice.

Animal Care Services, Principal Investigator subcutaneous, intravenous, intraperitoneal, intramuscular, per os, per rectum

Use the following table to determine the most appropriate site for blood collection based on the volume required.

Site	Submandibular	Saphenous	Submental	Tail Vein	Retro-orbital	Cardiac Puncture
Multiple sampling	Yes	Yes	Yes	Yes	Yes	No
Volume	Max.200µl	Max. 200µl	Max. 200µl			

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throughout a

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This schedule allows for recovery time for the animals as illustrated in the following table:

Percent of blood volume collected in a sampling	Recovery period (weeks)	Percent of blood volume collected over a 24-HOUR PERIOD (samples)	Recovery period (weeks)
7.5%	1	7.5%	1
10%	2	10 - 15%	2
15%	4	20%	4

- Sterile syringes
- Sterile needles (multiple sizes ranging from 23-30g)
- Gauze
- Alcohol swabs
- Collection tubes
- Anaesthetics
- Surgical tools as needed

Only University Animal Care Committee (UACC) approved blood collection techniques can be performed.

The minimal volume required should be collected at all times.

All collections should be performed by trained and competent individuals.

The smallest needle size for the collection location (avoiding hemolysis) should be



