

<b>d</b>	<b>P</b>	<b>R</b>	<b>R</b>	<b>b</b>
<b>S</b>	<b>I</b>	<b>b</b>	<b>I</b>	
	<b>B</b>	<b>R</b>		<b>R a</b>
<b>S</b>	<b>I</b>	<b>a</b>	<b>I</b>	<b>I</b>
	July 7, 2011		6	1

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Principal Investigators, Research Staff, Veterinary Staff

The purpose of this 3a162.02 3T/F3 9.96 Tf1 0 0 1 162.02 593.26 Tm0 (The)-6(-)-4(pur)-3(pos)-43se

<b>d</b>	<b>P</b>	<b>R</b>	<b>R</b>	<b>b</b>
<b>S</b>	<b>I</b>	<b>b</b>	<b>I</b>	
	<b>B</b>	<b>R</b>	<b>R</b>	<b>a</b>
<b>S</b>	<b>I</b>	<b>a</b>	<b>I</b>	<b>I</b>
July 7, 2011		6		2

Body Weight (g)	Total Circulating Blood Volume (mL/g)	Acceptable volume for collection $\mu$ l (mL)		
		7.5% Single collection/ 1 week	10% single collection/ 2 weeks	15% single collection/ 4 weeks
100	6.4	500 (0.5 ml)	600 (0.6 ml)	900 (0.9 ml)
150	9.6	700 (0.7)	900 (0.9)	1400 (1.4)
200	12.8	900 (0.9)	1200 (1.2)	1900 (1.9)
250	16	1200 (1.2)	1600 (1.6)	2400 (2.4)
300	19.2	1400 (1.4)	1900 (1.9)	2800 (2.8)
350	22.4	1600 (1.6)	2200 (2.2)	3300 (3.3)
400	25.6	1900 (1.9)	2500 (2.5)	3800 (3.8)
450	28.8	2100 (2.1)	2800 (2.8)	4300 (4.3)
500	32	2400 (2.4)	3200 (3.2)	4800 (4.8)

<b>d</b>	<b>P</b>	<b>R</b>	<b>R</b>	<b>b</b>		
<b>S</b>	<b>I</b>		<b>b</b>	<b>I</b>		
	<b>B</b>		<b>R</b>		<b>R</b>	<b>a</b>
<b>S</b>	<b>I</b>		<b>a</b>	<b>I</b>		

July 7, 2011

<b>d</b>	<b>P</b>	<b>R</b>	<b>R</b>	<b>b</b>
<b>S</b>	<b>I</b>	<b>b</b>	<b>I</b>	
	<b>B</b>	<b>R</b>		<b>R a</b>
<b>S</b>	<b>I</b>	<b>a</b>	<b>I</b>	<b>I</b>
July 7, 2011		6		4

### *Lateral Recumbency*

Place the animal on its right side facing down.

Using the elbow to help indicate location along the rib cage, palpate for a strong heartbeat.

Insert the needle into the thoracic cavity where the heart beat is the strongest.

When there is evidence of blood within the hub of the needle, steady the syringe and withdraw blood slowly.

- 1) Diehl, K.-H. et al., "A Good Practice Guide to the Administration of Substances and Removal of Blood, Including Routes and Volumes", *J. Appl. Toxicol.*, **21**, 15–23 (2001)
- 2) Wolfensohn, S., Lloyd, M. 2nd Edition, Blackwell Science Ltd. 1998.
- 3) Guidelines for survival bleeding of mice and rats; NIH: <http://oacu.od.nih.gov/ARAC/Bleeding.pdf>
- 4) Guide to the Care and Use of Experimental Animals, Vol. 1 (2<sup>nd</sup> ed), Canadian Council on Animal Care, Canada, 1993: