

DREXEL UNIVERSITY ANIMAL CARE AND USE COMMITTEE DOSING VOLUME POLICY

The following are appropriate dosing volumes for the various laboratory animal species. Figures represent the maximum volume not to be exceeded for a single once per day administration. The veterinary staff is available to discuss appropriate volumes for species not listed.

All administered substances must be approved by the IACUC. Volumes that exceed those listed must be stated in the IACUC protocol, scientifically justified, and should be discussed with an ULAR veterinarian prior to submission.

MAXIMUM DOSING VOLUMES (ml/kg)

	GAVAGE	IV¹	IP	SC²	IM³
MOUSE	10	5	10	5	3 ^c
RAT	10	5	10	5	2
RABBIT	10	5	5 ^b	5	0.3
CAT	10	5	2	5	0.3
SWINE	10	5	5 ^b	5	0.3

¹Volumes near the maximum must be given very slowly; e.g., over a period of a minute or longer.

²More than one site should be used when administering larger volumes or frequent administration subcutaneously. The veterinary staff should be consulted in making this decision.

³Appropriate volumes for intramuscular administration may vary depending on the irritancy of the solution. If the potential for irritancy exists and/or larger volumes need to be used, injection of smaller volumes into multiple sites is recommended.

^bThe intraperitoneal route of administration is infrequently used in rabbits and swine.

^cThe intramuscular route of administration is infrequently used in mice. **The thigh muscle is the preferred injection site for this species.**

References

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5. Diehl, et.al., A Good Practice Guide to the Administration of Substances and Removal of Blood, Including Routes and Volumes, *Journal of Applied Toxicology*, 21, 15–23 (2001)
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