

# Recommended Anesthetic Agents

Anesthetics	Species	Agent	Description (dose, route, brief notes)	Reference
	Mice	Ketamine / Xylazine	80-100 mg/kg Ketamine+ 10 mg/kg Xylazine IP	(F)
	Mice	Pentobarbital	50-90 mg/kg IP,dilute w/nacl sol to give 0.1 ml/10gm bwt	(AC)
	Mice	Isoflurane	3-4% induction then1-2 % maintenance via vaporizer	(AC)
	Mice	Halothane	3-4 % induciton, 1-3 % maintenance via vaporizer	(AC)
	Mice	Propofol	12-26 mg/kg IV, titrate to effect (short duration)	(AC)
	Mice	Avertin	250 mg/kg IP of 1.2% Sol. Fresh stock solution must be made every two weeks!	(AC)
	Rats	Ketamine / Xylazine	40-80 mg/kg Ketamine + 5-10 mg/kg Xylazine IM	(F)
	Rats	Pentobarbital	40-50 mg/kg IP	(F)
	Rats	Thiopental	20-40 mg/kg IV (5-10 min duration)	(AC)
	Rats	Isoflurane	2-5% induction 1-3% maintenance	(AC)
	Rats	Halothane	3-4% induction 1-3% maintenance	(AC)
	Rats	Inactin	80 mg/kg IP - 1-4 hr. Surgical Time	(F)
	Rats	Chloral Hydrate	300-450 mg/kg IP (<=5% !! Sol.)	(AC)
	Rats	Propofol	7.5-10 mg/ kg IV (5-10 duration)	(AC)
	Hamsters	Ketamine / Xylazine	100-200 mg/kg + 7-10 mg/kg IP	(AC)
	Hamsters	Pentobarbital	50-90 mg/kg IP	(F)
	Hamsters	Isoflurane	4-5% induction 1.5-3% maintenance via vaporizer	(AC)
	Hamsters	Sevoflurane	3-5 % induction 1-3 % maintenance via vaporizer	(AC)
	Hamsters	Halothane	3-4% induction 1-3% maintenance via vaporizer	(AC)
	Hamsters	Telazol	50-80 mg/kg IP	(F)
	Guinea Pig	Ketamine / Xylazine	30-44 mg/kg + 1- 5 mg/kg IP	(L)
	Guinea Pig	Pentobarbital	15-40 mg/kg IP or 30 mg IV slow	(L)
	Guinea Pig	Isoflurane	4-5% induction 1-3% maintenance	(AC)
	Guinea Pig	Diazepam	2.5 - 5 mg/kg IP	(L)
	Guinea Pig	Halothane	3-4 % induction,1-3% maintenance (can be hepatotoxic)	(AC)
	Ferrets	Ketamine / Xylazine	20-30 mg/kg + 1-4 mg/kg IM	(AC)
	Ferrets	Isoflurane	3-4% induction 2-3% Maintenance	(AC)
	Ferrets	Halothane	3-4% induction 2 -3% Maintenance	(AC)
	Ferrets	Pentobarbital	30-50 mg/kg IP	(AC)
	Rabbits	Ketamine / Xylazine	22-50 mg/kg Ketamine + 3-10 mg/kg Xylazine IM	(L)
	Rabbits	Pentobarbital	20-50 mg/kg IP or 20-50 mg/kg IV slow! (Don't Repeat IV)	(F,L)
	Rabbits	Isoflurane	3-4% induction 1.2 - 3% Maintenance	(AC)
	Rabbits	Acepromazine	1 mg/kg IM Preanesthetic	(L)
	Rabbits	Telazol	32- 64 mg/kg IM	(L)
	Rabbits	Halothane	3-5% Induction 1-4% Maintenance	(AC)
	Rabbits	Propofol	7.5-15 mg/kg IV (short duration 5-10 min)	(L)
	Dogs	Pentobarbital	20-30 mg/kg IV	(FL)
	Dogs	Ketamine / Valium	5.5 mg/kg/ 0.20 mg/kg IV (Can mix same syringe)	(L)
	Dogs	Telazol	2.2 mg/kg IV induction or 7.5 mg IM	(L,F)
	Dogs	Isoflurane	1.5-2.2 % maintenance after injectable induction	(VR)
	Dogs	Halothane	1.5-2.0% maintenance after injectable induction	(VR)
	Pigs	Ketamine/ Medetomidine	10 mg/kg / 0.08 mg/kg IM	(F)
	Pigs	Propofol	2.5-3.5 mg/kg IV (short duration)	(F)

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	Pigs	Telazol	2-8.0 mg/kg IM	(AC)
	Pigs	Isoflurane	2-2.5 % maintenance after IV induction	(VR)
	Sheep	Telazol	2-4 mg/kg IV (Short duration)	(L)
	Sheep	Ketamine / Valium	4 mmg/kg / 1 mg/kg IV for induction	(F)
	Sheep	Ketamine / Xylazine	5-15 mg/kg / 0.15 mg/kg IM ***Caution w/ Xylazine dose!	(AC)
	Sheep	Halothane	1.0 -1.5% Maintenance after IV induction	(VR)
	Sheep	Isoflurane	1.5 -2.5 % Maintenance after IV induction	(VR)
	Sheep	Thiopental	10-15 mg/kg IV to effect (short duration)	(F)
	Macaques	Ketamine	10-20 mg/kg IM	(AC)
	Macaques	Ketamine/Xylazine	10 mg/kg / 0.5 -2 mg/kg IM	(AC)
	Macaques	Telazol	4 -6 mg/kg IM	(AC)
	Macaques	Isoflurane	1.2 - 2.0% Maintenance	(VR)
	Macaques	Halothane	1.2 - 2.5% Maintenance	(VR)
	Macaques	Propofol	2.5 - 5 mg/kg IV Bolus then 0.3 - 0.4 mg/kg min CRI	(AC)
	Baboons	Ketamine	10-15 mg/kg IM	(F)
	Baboons	Isoflurane	1.2 - 2% Maintenance	(VR)
	Baboons	Diazepam	1 mg/kg IM Preanesthetic (or use with Ketamine above)	(F)
	Baboons	Halothane	1-2.2% Maintenance	(VR)
	Baboons	Propofol	7.5-12. 5 mg/kg IV Bolus (Short duration)	(F)
	Xenopus	MS222	Immersion in solution containing 0.1% Sol (1gm/L buffered to 7-7.4 pH)	(AM)
	Xenopus	Isoflurane	4- 5% with vaporizer and induction tank	(AM)
	Xenopus	Benzocaine	200-300 mg/L of solution for Larval Frog	(AM)

AC: Anesthesia and analgesia in Laboratory Animals, American College of Laboratory Animal Medicine Series 1997

F: Laboratory Animal anaesthesia, P. Flecknell 1996, reprinted 2000

L: Veterinary Anesthesia, Lumb & Jones. 1996

FL: Formulary For Laboratory Animals, Second Edition, 1999

AM: Amphibian Medicine and Captive Husbandry Wright, Whitaker, 2001

VR: Veterinary Resources average settings on facilities vaporizers.