Multiple Minor Species Dose Guide

Reptiles, Amphibian & Fish

	Common Name	ALFAXAN MULTIDOSE IDX Dose & Route	Concomitant Drug(s) Dose & Route	Outcome / Comments	Precautions / Adverse Reactions	Ref*
Lizards	Blotched Blue-tongue Lizard	9 mg/kg; IV	None	Ventral coccygeal vein; anesthesia not achieved in all cases		1
	Eastern Blue-tongue Lizard			Ventral coccygeal vein over 10 sec; anesthesia		1
	Coastal Bearded Dragon					1
	Inland Bearded Dragon					1
	Gippsland Water Dragon					1
	Green Iguana	20 mg/kg; IM	None	Anesthesia		2
		5 mg/kg; IM	None	Anesthesia		3
	Veiled Chameleon	3 mg/kg; IV	None	Ventral coccygeal vein; anesthesia		4
	Leopard Gecko	15 mg/kg; SC	Midazolam 1 mg/kg; SC	Deep sedation		5
		5 mg/kg; IV	None	Anesthesia		6
	Perentie Monitor	5 mg/kg; IV	None	Anesthesia		7
	Bearded Dragon	5 mg/kg; IV	None	Anesthesia		8
		12 mg/kg; IV	None	Anesthesia		9
Snakes	Red Bellied Black	9 mg/kg; IV	None	Ventral coccygeal vein; anesthesia		1
	Lowland Copperhead					1
	Eastern Tiger					1
	Coastal Carpet					1
	Black Headed					1
	Ball Python	20 mg/kg; IM	None	Anesthesia (cranial injection site required)		10
	Garter Snake	30 mg/kg; Intracoelomic	None	Loss of righting reflex		11
Turtles and Tortoises	Red Eared Slider Turtle	5 mg/kg; IV	None	Anesthesia		12
		10-20 mg/kg; IM	None	Lower environmental temperatures and or body temperature prolonged anesthesia		13
	Loggerhead Sea Turtle	3, 5 and 10 mg/kg; IV	None	Anesthesia	10 mg/kg dose produced apnea	14
	Hartmann's Tortoise	5 mg/kg; IV	None	Anesthesia		12
	Spur-Thighed Tortoise					12
	Marginated Tortoise					12
	Russian Tortoise	5 mg/kg; IV	None	Anesthesia		12
		10 mg/kg; IM	Medetomidine 0.05 mg/kg; IM	Moderate/deep sedation; minimal analgesia	Bradycardia was observed with this combination of drugs	15
		20 mg/kg; IM	Medetomidine 0.1 mg/kg; IM	Deep sedation/anesthesia; variable analgesia		
	Red Footed Tortoise	10 mg/kg; IM	Midazolam 1 mg/kg and Hydromorphone 0.5 mg/kg; IM (front legs)	Anesthesia		16
	Pond Sliders	10 mg/kg; IV	None	Via subcarapacial vein; Anesthesia		17
	Spur Thighed Tortoise	10 mg/kg; IV	Morphine 1.5 mg/kg and Meloxicam 0.2 mg/kg; SC	Via jugular vein; Anesthesia		18
Amphibians	Oriental Fire Bellied Toad	30 mg/l. H_2O*; immersion	Butorphanol 25 mg/l. H_2O*; immersion (butorphanol combined with ALFAXAN MULTIDOSE IDX in same bath)	Surgical anesthesia was observed in both treatment groups. The baths were adjusted to pH 7±0.2 with sodium bicarbonate, 8.4%. One third of the toad's surface area was immersed to avoid drowning.		19
		30 mg/l. H_2O*; immersion	Morphine 50 mg/l. H_2O*; immersion (morphine combined with ALFAXAN MULTIDOSE IDX in same bath)			
	Australian Frog	30 mg/kg; IM	None	Anesthesia		20
	Axolotl	5 mg/l. H_2O*; first immersion then continuous irrigation of the gills and skin after the axolotl was removed from the bath	None	The anesthetic bath was prepared to pH 6.5. Additional 30 µl. drops of stock ALFAXAN MULTIDOSE IDX were applied to gills when required. Mild sedation was produced with initial immersion and anesthesia produced with subsequent drops.		21
* Anesthetic baths were prepared using the bicarbonated mineral water at room temperature						
Fish	Goldfish	0.5, 2, 5 & 7.5 mg/l. H_2O*; immersion	None	Sedation at 0.5 and 2 mg/l. Anesthesia at 5 and 7.5 mg/l.		22
		5 mg/l. H_2O; immersion followed by continuous gill irrigation with 5 mg/l. H_2O	None	Anesthesia		23
	Koi	10 mg/l. H_2O*; Immersion followed by continuous gill irrigation with 1 or 2.5 mg/l. H_2O†	None	All fish anesthetized. Opercular movement observed in 4 of 6 fish at 2.5 mg/l. H_2O		24
	Oscar Fish	5 mg/l. H_2O*; immersion	None	Anesthesia		25
	Zebra Fish	10 mg/l. H_2O†; immersion	None	Anesthesia		26

^ Water tank at temperature (22-27°C); pH (6.8-7.2); ammonia (10-45 mg/mL)
# Dechlorinated water at temperature (22-27°C); pH (6.8-7.2); Total ammonia (0.0-0.25 mg/L); nitrate (10-50 mg/L)
@ Dechlorinated water at temperature 27°C
§ Water tank at temperature 30°C; pH 7.8

Multiple Minor Species Dose Guide

Birds, Primates, Ferrets, Marsupials & Ungulates

	Common Name	ALFAXAN MULTIDOSE IDX Dose & Route	Concomitant Drug(s) Dose & Route	Outcome / Comments	Precautions / Adverse Reactions	Ref*
Birds	Budgerigar	10 mg/kg; IM	None	Sedation		27
		15 mg/kg; IM	None	Sedation		28
	Bengalese Finch	10, 30 & 50 mg/kg; SC	Midazolam 0.7 mg/kg or Butorphanol 1 mg/kg; SC combined with 30 mg/kg ALFAXAN MULTIDOSE IDX; SC	Dose dependant response in duration of recumbency. Addition of midazolam or butorphanol produced a further increase in the duration of anesthesia.		29
	Flamingo	2 mg/kg; IV	Isoflurane used for maintenance of anesthesia	Induction of anesthesia		30
	Mute Swan	10 mg/kg; IV	Isoflurane used for maintenance of anesthesia	Induction of anesthesia	Induction apnea observed in 12% (median) of swans (n=27)	31
Non-Human Primates	Ring Tailed Lemur	Initially 0.5 mg/kg; IV	Dexmedetomidine 0.015 mg/kg, Butorphanol 0.2 mg/kg, Midazolam 0.2 mg/kg; all IM	Bolused to effect until endotracheal intubation completed		32
	Macaque	10 mg/kg; IM	Diazepam 3 mg/kg and Atropine 0.2 mg/kg IM	Supplemental doses of 5 mg/kg Alfaxan Multidose IDX administered IV to maintain anesthesia		33
	Common Marmoset	12 mg/kg; IM	None	Sedation		34
		15 mg/kg; IM	None	Anesthesia		35
		12 to 18 mg/kg; IM	Diazepam 0.25 mg/kg; IM	Anesthesia		36
		18.5 mg/kg; IM	None	Anesthesia		37
		10.6 ± 1.6 mg/kg; IM	None	3.2±1.2 mg/kg administered IV after the IM dose		38
Rodents	Mice	15-20 mg/kg; IV	None	Anesthesia maintained with 0.25-0.75 mg/kg/min; IV		39
		80 mg/kg; IP	Xylazine 10 mg/kg; IP	Longer sleep times observed in female vs. male mice with ALFAXAN MULTIDOSE IDX ± xylazine IP	Mild seizure-like activity appeared in some mice	40
	Mice	60 mg/kg; SC	Medetomidine 0.3 mg/kg and Butorphanol 5 mg/kg; SC	Anesthesia	*Medetomidine should be used with caution in male mice (obstructive uropathy)	41
	Rats	10-12 mg/kg; IV	None	Anesthesia maintained with 0.25-0.75 mg/kg/min; IV		39
		2-5 mg/kg; IV	None	Anesthesia produced IV	A 30% failure rate for anesthesia observed IP.	42
		20 mg/kg; IP				
		30 mg/kg/hr; IV	None	Maintenance of anesthesia		43
		25 mg/kg /hr; IP (females)	Dexmedetomidine 0.05 mg/kg; IP or Dexmedetomidine 0.05 mg/kg + Fentanyl 0.1 mg/kg; IP	Anesthesia. Males rats appeared to require more ALFAXAN MULTIDOSE IDX than female rats to produce a similar duration of anesthesia		44
		75 mg/kg/hr; IP (males)				
		1.7 mg/kg/min for 2.5 min IV (induction of anesthesia)	None	Anesthesia maintained at 0.75 mg/kg/min; IV		45
	Guinea Pig	5 mg/kg; IM	None	Sedation		46
		20 mg/kg; SC	+/- Dexmedetomidine 0.25 mg/kg; SC & Buprenorphine 0.05 mg/kg; SC	Sedation		47
* Wolf-S, et al. Microbial distribution by cervical coagulase is associated with medetomidine-butorphanol-induced anesthesia in male mice on C57BL/6J and inbred genetic backgrounds. Am Assoc Lab Anim Sci. 2009; 48(3):276-291.						
Ferrets	Ferret	6 mg/kg; IM	Butorphanol 0.1 mg/kg and midazolam 1 mg/kg IM as premedication	Anesthesia maintained with 3 – 15 mg/kg/hr ALFAXAN MULTIDOSE IDX		48
		5 mg/kg; IV	Dexmedetomidine 0.05 mg/kg; SC as premedication	Anesthesia		49
		5 mg/kg; IV	None	Anesthesia		50
		2.5 mg/kg; IV	Medetomidine 0.02 mg/kg IM as premedication			
Marsupials	Koala	3 mg/kg; IM	None	Anesthesia maintained with isoflurane in oxygen		51, 52, 53, 54, 55, 56
		2 mg/kg; IM	None	Anesthesia maintained with isoflurane in oxygen		57
		1.5 mg/kg; IV	None	Anesthesia		51
	Wallaby	4 mg/kg; IM	Medetomidine 0.1 mg/kg; IM	Anesthesia. Drugs administered together in a dart.		58
	Kangaroos and Wallabies	5-8 mg/kg; IM 1.5-3 mg/kg; IV	None	Anesthesia		51
	Possums and Gliders	5-8 mg/kg; IM 5 mg/kg; IV	None	Rapid and short duration of anesthesia produced.		51
	Wombats	3-5 mg/kg; IM	None	Anesthesia		51
MINOR SPECIES UNGULATES	Alpaca	2.1 mg/kg; IV	None	Anesthesia achieved but poor quality of recovery observed.	Premedication is indicated prior to induction of anesthesia. Premedication will aid in induction of anesthesia and improve the quality of recovery in short procedures.	59

*For complete list of references go to Product Insert at www.jurox.com/us or scan QR code.
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