

Medications Commonly Used in Goats and Approximate Withdrawal Times

Dr. Seyedmehdi Mobini, Georgia Small Ruminant Research & Extension Center, Fort Valley State University, Fort Valley, GA

The drugs listed in this table are commonly used in goats. There are only a few drugs *approved* by the FDA to be used in goats. **Use of drugs listed as “extra-label” is legal only if prescribed by your veterinarian in the context of a valid client-patient relationship.** The withdrawal times for various drugs were compiled from different sources. The listed dosages and withdrawal times, as well as drug status and legality of use, is subject to change. Your veterinarian will prescribe the latest, most up-to-date drugs, dosages, and provide the correct withdrawal period. ***Consult your veterinarian before beginning any treatment.***

I. Antibiotics:	Brand Name	Approval	Dosage	Route	Frequency	Withdrawal Time	
						Meat	Milk
Ceftiofur	Naxcel®	APPROVED	0.5-1 mg/lb	IM	Once a day	0 days	0 days
Neomycin	Biosol® and other products	APPROVED	5 mg/lb	PO	Twice a day	3 days	NA
Amoxicillin	Amoxi-inject®	<i>extra-label</i>	5 mg/lb	SQ	Once a day	26 days	120 hrs.
Ampicillin	Polyflex®	<i>extra-label</i>	5 mg/lb	SQ	Once a day	10 days	72 hrs.
Benzathine Pen G	Pen BP-48®	<i>extra-label</i>	20,000 IU/lb	SQ	Every 48 hours	30 days	NA
Erythromycin	Erythro-200®	<i>extra-label</i>	1 mg/lb	SQ	Once a day	5 days	96 hrs.
Florfenicol	Nuflor®	<i>extra-label</i>	9 mg/lb	IM	Every 48 hours	28 days	120 hours
Oxytetracycline	LA-200®	<i>extra-label</i>	9 mg/lb	SQ	Every 48 hours	29 days	144 hrs
Procaine Pen. G	Crysticillin®	<i>extra-label</i>	10,000-20,000 IU/lb	SQ	Once a day	16-21 days	120 hours
Sulfadimethoxine	Albon®	<i>extra-label</i>	25 mg/lb Day 1, 12.5 mg/lb Days 2 - 5	PO	Once a day	12 days	5 days
<i>EXTRA-LABEL USE IS PROHIBITED IN LACTATING DAIRY COWS. DO NOT USE IN LACTATING DAIRY DOES.</i>							
Tylosin	Tylan®-200	<i>extra-label</i>	10 mg/lb	IM	Once a day	30 days	96 hrs.
Chloramphenicol	Chloramphenicol	<i>EXTRA-LABEL USE IS PROHIBITED</i>					
Enrofloxacin	Baytril® 100	<i>EXTRA-LABEL USE IS PROHIBITED</i>					
Furacin, nitrofurantoin	Furox®	<i>EXTRA-LABEL USE IS PROHIBITED</i>					
Gentamicin	Gentocin®	<i>DO NOT USE</i>					
Tilmicosin	Micotil®	<i>DO NOT USE – TOXIC TO GOATS</i>					
II. Anti-inflammatory Drugs:	Brand Name	Approval	Dosage	Route	Frequency	Withdrawal Time	
						Meat	Milk
Aspirin	Aspirin	<i>extra-label</i>	100 mg/kg	PO	Once a day	1 day	24 hours.
Flunixin meglumine	Banamine®	<i>extra-label</i>	1.1-2.2mg/kg	IV or IM	Once a day	10 days	72 hours
Phenylbutazone	Bute	<i>extra-label</i>	10-20 mg/kg	PO	Once a day	60 days	<i>DNU</i>
<i>DO NOT USE IN LACTATING ANIMALS</i>							
Dipyrrone	Dipyrrone	<i>EXTRA-LABEL USE IS PROHIBITED</i>					

III. Prevention of Coccidiosis:	Brand Name	Approval	Dosage	Withdrawal Time		
				Meat	Milk	
Decoquinat	Deccox®	APPROVED	13-91 gm/ton of feed	0 days	24 hours suggested minimum, <i>DNU</i>	
Monensin	Rumensin®	APPROVED	15-20 gms/ton of feed	0 days	96 hours suggested minimum, <i>DNU</i>	
Amprolium	Corid®	<i>extra-label</i>	25-50 mg/kg BW in feed or water	2 days	48 hours	
Lasalocid	Bovatec®	<i>extra-label</i>	20-30 gms/ton of feed	0 days	24 hours	
IV. Anthelmintics:	Brand Name	Approval	Dosage	Route	Withdrawal Time	
					Meat	Milk
1. Avermectins:						
Doramectin	Dectomax®	<i>extra-label</i>	0.3 mg/kg	SQ	56 days	40 days
Eprinomectin	Eprinex®	<i>extra-label</i>	0.5 mg/kg	PO	NA	NA
Ivermectin	Ivomec® Drench	<i>extra-label</i>	0.3 mg/kg	PO	14 days	9 days
Ivermectin	Ivomec® 1%	<i>extra-label</i>	0.3 mg/kg	SQ	56 days	50 days
Moxidectin	Quest®, Cydectin®	<i>extra-label</i>	0.5 mg/kg	PO	23 days	56 days
	Cydectin® drench	<i>extra-label</i>	0.3 mg/kg	PO	14 days	NA
	Cydectin® Injectable	<i>extra-label</i>	0.2 mg/kg	SQ	30 days	<i>DNU</i>
2. Benzimidazoles:						
Albendazole	Valbazen®	<i>extra-label</i>	10 mg/kg	PO	7 days	120 hours
Fenbendazole	Panacur®/ Safeguard®	APPROVED at 5mg/ Kg, <i>extra-label</i> as recommended	10 mg/kg	PO	14 days	120 hours
Oxfendazole	Synanthic®	<i>extra-label</i>	10 mg/kg	PO	14 days	120 hours
3. Cholinergic Agonists:						
Morantel Tartrate	Rumatel®	APPROVED	10 mg/kg	PO	30 days	0 days
Levamisole	Levasole®	<i>extra-label</i>	8 mg/kg	PO	10 days	4 days

V. Anesthetics and Tranquilizers	Brand Name	Approval	Dosage	Route	Withdrawal Time	
					Meat	Milk
Ketamine	Ketaset®	<i>extra-label</i>	5-10 mg/kg	IV or IM	3 days	48 hours
Lidocaine	Lidocaine	<i>extra-label</i>	Variable for local anesthesia use, 1% in goats			
Thiamylal Na	Biotal	<i>extra-label</i>	10-20 mg/kg	IV	1 day	24 hours
Xylazine	Rompun®	<i>extra-label</i>	0.05-0.1 mg/kg	IV or IM	5 days	72 hours
Yohimbine	Yobin	<i>extra-label</i>	0.25 mg/kg	IV	7 days	72 hours

VI. Hormones:	Brand Name	Approval	Dosage	Route	Withdrawal Time	
					Meat	Milk
Cloprostenol	Estrumate®	<i>extra-label</i>	125 microgram	IM	0 days	0 days
Dexamethasone	Azium®	<i>extra-label</i>	20-25 mg	IM	14 days	4 days
Dinoprost	Lutalyse®	<i>extra-label</i>	5-10 mg	IM	1 day	24 hours
Oxytocin	Oxytocin	<i>extra-label</i>	10-20 IU	IM	0 days	0 days

VII. Electrolytes	Brand Name	Approval	Dosage	Route	Withdrawal Time	
					Meat	Milk
Calcium	Calcium borogluconate	<i>extra-label</i>	60 to 100 ml of 20 to 25% Solution	IV	0 days	0 days
Calcium	Calcium gluconate	<i>extra-label</i>	50 to 100 ml 10 to 23% calcium ion solution	IV	0 days	0 days

NOTE:

In the table above PO = oral administration; SQ = subcutaneous injection; IM = intramuscular injection; IV = intravenous injection.
DNU = insufficient data available to make WDI estimation, this drug is not approved for lactating goats.

Information contained in this document is part of a web-based training and certification program for meat goat producers (<http://www2.luresext.edu/goats/training/qa.html>) that was developed with funding received by Langston University from USDA/FSIS/OPHS project #FSIS-C-10-2004 entitled "Development of a Web-based Training and Certification Program for Meat Goat Producers."

Collaborating institutions/organizations include Alcorn State University, American Boer Goat Association, American Kiko Goat Association, American Meat Goat Association, Florida A&M University, Fort Valley State University, Kentucky State University, Langston University, Prairie View A&M University, Southern University, Tennessee Goat Producers Association, Tennessee State University, Tuskegee University, United States Boer Goat Association, University of Arkansas Pine Bluff, and Virginia State University.