





# Cattle Withdrawal Time Chart








d	days	IMM	intramammary	IP	intraperitoneal	IV	intravenous		Prescription drug
dW	drinking water	IM	intramuscular	IR	intra-ruminal	MR	milk replacer		
h	hours	IN	intranasal	IVag	intra-vaginal	SubQ	subcutaneous		

Product Name (Company Name)	Species	Route of Administration	Meat	Milk
20/20 Vision® 7 with SPUR® (Intervet/Merck Animal Health)	Cattle	SubQ	21 d	
 <b>ADVOICIN™</b> (Zoetis) <b>Note:</b> Not for use in cattle intended for dairy production or calves to be processed for veal.	Beef Cattle	SubQ	4 d	
<b>ALBADRY PLUS®</b> (Zoetis) <b>Note:</b> Do not use less than 30 days prior to calving. Milk from treated cows must not be used for food within the first 72 hours of calving.	Dairy Cattle	IMM	30 d	
<b>ALBON® BOLUSES</b> (Zoetis) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Beef Cattle Dairy Cattle	Oral Oral	7 d 7 d	60 h
<b>Alpha-7™</b> (Boehringer Ingelheim)	Cattle	SubQ	60 d	
<b>Alpha-7/MB™-1</b> (Boehringer Ingelheim)	Cattle	SubQ	60 d	
<b>Alpha-CD™</b> (Boehringer Ingelheim)	Cattle	SubQ	60 d	
 <b>Amoxi-Mast®</b> (Intervet/Merck Animal Health)	Dairy Cattle	IMM	12 d	60 h
<b>Anthrax Spore Vaccine</b> (Colorado Serum)	Cattle	SubQ	42 d	
<b>Arsenal® 4.1</b> (Novartis) <b>Note:</b> Do not use in pregnant cows or calves nursing pregnant cows.	Cattle	SubQ	21 d	
<b>Aspirin Bolus 240 Grains</b> (Generic) <b>Note:</b> Not for use in lactating cows.	Cattle	Oral		
<b>Banamine</b> (Merck Animal Health) <b>Note:</b> Do not use in dry dairy cows or veal calves.	Beef Cattle Dairy Cattle	IV IV	4 d 4 d	36 h
<b>Bar-Guard-99™</b> (Boehringer Ingelheim)	Cattle	Oral	21 d	
<b>Bar Somnus 2P™</b> (Boehringer Ingelheim)	Cattle	IM	21 d	
<b>Bar-Vac® 7</b> (Boehringer Ingelheim)	Cattle	SubQ	21 d	
<b>Bar Vac® CD/T</b> (Boehringer Ingelheim)	Cattle	SubQ	21 d	
 <b>Baytril® 100 (enrofloxacin) 100 mg/mL Antimicrobial Injectable Solution</b> (Boyer Animal Health) <b>Note:</b> Not for use in female dairy cattle 20 months of age or older. Do not use in calves to be processed for veal.	Cattle	SubQ	28 d	
<b>Bio-Mycin® 200</b> (Boehringer Ingelheim)	Beef Cattle Dairy Cattle	IM, IV, SubQ IM, IV, SubQ	28 d 28 d	96 h
<b>Blood Stop Powder</b> (Generic) <b>Note:</b> Not for use on animals intended for food purposes.	Cattle	Topical		
 <b>BO-SE®</b> (Intervet/Merck Animal Health) <b>Note:</b> Not for use in newborn pigs. Do not use in pregnant ewes.	Cattle	IM, SubQ	30 d	
<b>Bovine Pili Shield®</b> (Novartis)	Cattle	IM	60 d	
<b>Bovine Pili Shield® + C</b> (Novartis)	Cattle	IM	60 d	
<b>Bovi-Sera</b> (Colorado Serum)	Cattle	IM, SubQ	21 d	
<b>Bovi-Shield® BRSV</b> (Zoetis)	Cattle	IM, SubQ	21 d	
<b>Bovi-Shield GOLD® 4</b> (Zoetis)	Cattle	SubQ	21 d	
<b>Bovi-Shield GOLD® 5</b> (Zoetis)	Cattle	SubQ	21 d	
<b>Bovi-Shield GOLD® BVD</b> (Zoetis)	Cattle	SubQ	21 d	
<b>Bovi-Shield GOLD® FP® 5</b> (Zoetis)	Cattle	IM, SubQ	21 d	
<b>Bovi-Shield GOLD® FP® 5LS</b> (Zoetis)	Cattle	IM	21 d	
<b>Bovi-Shield GOLD® FP® 5LS HB</b> (Zoetis)	Cattle	IM, SubQ	21 d	
<b>Bovi-Shield GOLD® FP® 5 VL5</b> (Zoetis)	Cattle	IM	21 d	


<b>Bovi-Shield GOLD® FP® 5 VL5 HB (Zoetis)</b>	Cattle	IM, SubQ	21 d	
<b>BRD Shield™ (Novartis)</b>	Cattle	SubQ	21 d	
<b>Calf-Guard® (Zoetis)</b>	Cattle	IM, Oral	21 d	
<b>CattleMaster® 4+VL5 (Zoetis)</b>	Cattle	IM	21 d	
<b>CattleMaster™ GOLD FP® 5 (Zoetis)</b>	Cattle	SubQ	21 d	
<b>CattleMaster™ GOLD FP® 5 L5 (Zoetis)</b>	Cattle	SubQ	21 d	
<b>Cavalry™ 9 (Intervet/Merck Animal Health)</b>	Cattle	SubQ	21 d	
<b>C &amp; D Antitoxin™ (Boehringer Ingelheim)</b>	Cattle	IV, SubQ	21 d	
 <b>CEFTIFLEX® (Med-Pharmex)</b>	Beef Cattle Dairy Cattle	IM, SubQ IM, SubQ	4 d 4 d	0 h
<b>chorulon® (Merck Animal Health)</b> <b>Note:</b> Not for human use. Women of childbearing age should handle with extreme caution.	Beef Cattle Dairy Cattle	IM IM	0 d 0 d	
<b>Citadel® L5 (Boehringer Ingelheim)</b>	Cattle	IM, SubQ	21 d	
<b>Clean-Up™ (KMG-Bermuth)</b>	Dairy Cattle	Topical	0 d	0 h
<b>Clostratox® BCD (Novartis)</b>	Cattle	SubQ	21 d	
<b>Clostratox® Ultra C 1300 (Novartis)</b>	Cattle	Oral, SubQ	21 d	
<b>Clos Perf Types C &amp; D Antitoxin, Equine Origin. (Colorado Serum)</b>	Cattle	IV, SubQ	21 d	
<b>CI Perfringens Type A Toxoid (Novartis)</b>	Cattle	SubQ	21 d	
<b>CMPK Gel Plus (Leedstone)</b>	Dairy Cattle	Oral	0 d	0 h
<b>Co-Ral® Livestock Dust (Y-TEX)</b>	Beef Cattle Dairy Cattle	Topical Topical	0 d 0 d	0 h 0 h
<b>Component® E-C with Tylan® (Elanco)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food.	Beef Cattle	Implant		
<b>Component® E-H with Tylan® (Elanco)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food. Not to be used in dairy animals.	Beef Cattle	Implant		
<b>Component® E-S with Tylan® (Elanco)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food. Not to be used in dairy animals.	Beef Cattle	Implant		
<b>Component® TE-H with Tylan® (Elanco)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food. Not to be used in dairy animals.	Beef Cattle	Implant		
<b>Component® TE-S with Tylan® (Elanco)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food. Not to be used in dairy animals.	Beef Cattle	Implant		
<b>COMPUDOSE® (Elanco)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Beef Cattle	Implant		
<b>CORID® 1.25% Pellets (Merial)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Cattle	in the feed	24 h	
<b>CORID® 9.6% Oral Solution (Merial)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Cattle	dw, Oral	24 h	
<b>CORID® 20% Soluble Powder (Merial)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Cattle	Oral	24 h	
<b>Covexin® 8 (Intervet/Merck Animal Health)</b>	Cattle	IM, SubQ	21 d	
<b>CYDECTIN® Injectable Solution (Boehringer Ingelheim)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Not for use in female dairy cattle 20 months of age or older.	Cattle	SubQ	21 d	
<b>CYDECTIN® Pour-On (Boehringer Ingelheim)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Beef Cattle Dairy Cattle	Topical Topical	0 d 0 h	0 h

<b>CyLence Guard™ Ear Tag</b> (Boyer Animal Health) <b>Note:</b> Remove tags before slaughter.	Cattle	Ear Tags		
<b>CYSTORELIN®</b> (Meril) <b>Note:</b> Not for human use. Women of childbearing age should handle with extreme caution.	Dairy Cattle	IV, IM	0 d	
<b>Dariclox®</b> (Intervet/Merck Animal Health)	Dairy Cattle	IMM	10 d	48 h
<b>Deccox®-M</b> (ALPHARMA) <b>Note:</b> Do not feed to cows producing milk for food.	Cattle	In the feed		
<b>DECTOMAX® Injectable Solution</b> (Zoetis) <b>Note:</b> Do not use in calves to be processed for veal. Not for use in female dairy cattle 20 months of age or older.	Cattle Swine	IM, SubQ IM	35 d 24 d	
<b>DECTOMAX® Pour-On</b> (Zoetis) <b>Note:</b> Do not use in calves to be processed for veal. Not for use in female dairy cattle 20 months of age or older.	Cattle	Topical	45 d	
<b>Dexamethasone Solution 2 mg/ml</b> (Generic) <b>Note:</b> Do not use in calves to be processed for veal. Not for use in pregnant animals.	Cattle	IM, IV		
<b>Draxxin® Injectable Solution</b> (Zoetis) <b>Note:</b> Do not use in calves to be processed for veal. Do not use in female dairy cattle 20 months of age or older.	Cattle Swine	SubQ IM	18 d 5 d	
<b>Dry-Clox®</b> (Boehringer Ingelheim) <b>Note:</b> Not to be used within 30 days of calving.	Dairy Cattle	IMM	30 d	
<b>Duramycin-10</b> (Durvet) <b>Note:</b> Do not use in calves to be processed for veal.	Cattle Swine	dw dw	5 d 4 d	
<b>EAZI-Breed™ CIDR® Cattle Insert</b> (Zoetis) <b>Note:</b> This product is used for Cystorelin.	Cattle Dairy Cattle	IVag IVag	0 d 0 d	0 h
<b>Elite® 4</b> (Boehringer Ingelheim)	Beef Cattle Dairy Cattle	IM IM	21 d 21 d	0 h
<b>Elite® 4-HS</b> (Boehringer Ingelheim)	Beef Cattle Dairy Cattle	IM IM	21 d 21 d	0 h
<b>Elite® 9</b> (Boehringer Ingelheim)	Beef Cattle Dairy Cattle	IM IM	21 d 21 d	0 h
<b>Encore</b> (Elanco) <b>Note:</b> Do not use in calves intended for veal.	Beef Cattle	Implant		
<b>Elite® 9-HS</b> (Boehringer Ingelheim)	Beef Cattle Dairy Cattle	IM IM	21 d 21 d	0 h
<b>ENDOVAC-Dairy® with ImmunePlus®</b> (Immvac)	Cattle	IM	60 d	
<b>EnterVene™-d</b> (Boehringer Ingelheim)	Beef Cattle	SubQ	21 d	
<b>enviracor™ J-5</b> (Zoetis)	Dairy Cattle	SubQ	60 d	
<b>EPRINEX® Pour-On for Beef and Dairy Cattle</b> (Meril) <b>Note:</b> Do not use in calves intended for veal.	Beef Cattle Dairy Cattle	Topical Topical	0 d 0 d	0 h
<b>estroPLAN®</b> (AgnLabs) <b>Note:</b> Not for human use. Women of childbearing age, asthmatics, and persons with bronchial and other respiratory problems should exercise extreme caution when handling this product. Accidental spillage on the skin should be washed off immediately with soap and water.	Beef Cattle Dairy Cattle	IM IM	0 d 0 d	
<b>Estrumate®</b> (Merck Animal Health) <b>Note:</b> Not for human use. Women of childbearing age, asthmatics, and persons with bronchial and other respiratory problems should exercise extreme caution when handling this product. Accidental spillage on the skin should be washed off immediately with soap and water.	Beef Cattle Dairy Cattle	IM IM	0 d 0 d	
<b>Excede®</b> (Zoetis) <b>Note:</b> Do not use in calves to be processed for veal. Administer as a single injection in the posterior aspect of the ear where it attaches to the head (base of the ear).	Cattle Dairy Cattle	SubQ SubQ	13 d 13 d	0 h
<b>Excenel® RTU</b> (Zoetis) <b>Note:</b> Do not use in calves to be processed for veal. Do not inject more than 15 ml per injection site.	Beef Cattle Dairy Cattle	IM, SubQ IM, SubQ	4 d 4 d	0 h
<b>EXPRESS® 5-HS</b> (Boehringer Ingelheim)	Cattle	SubQ	21 d	
<b>EXPRESS® FP 5</b> (Boehringer Ingelheim)	Cattle	IM, SubQ	21 d	
<b>EXPRESS® FP 5-VLS</b> (Boehringer Ingelheim)	Cattle	IM, SubQ	21 d	
<b>EXPRESS® FP 10</b> (Boehringer Ingelheim)	Cattle	IM, SubQ	21 d	
<b>EXPRESS® FP 10-HS</b> (Boehringer Ingelheim)	Cattle	SubQ	21 d	
<b>Factrel® Injection</b> (Zoetis) <b>Note:</b> Not for human use. Women of childbearing age should handle with extreme caution.	Beef Cattle Cattle	IM IM	0 d 0 d	0 h
<b>FERTAGYL</b> (Merck Animal Health) <b>Note:</b> Not for human use. Women of childbearing age should handle with extreme caution.	Dairy Cattle	IV, IM	0 d	

<b>Flunixin® Injectable Solution (Generic)</b> <b>Note:</b> Do not use in calves to be processed for veal. Not for use in dry dairy cows.	Beef Cattle Dairy Cattle	IV IV	4 d 4 d	36 h
<b>Fusogard® (Novartis Animal Health US, Inc.)</b>	Cattle	SubQ	6 d	
<b>GardStar® Plus Insecticide Ear Tags (Y-TEX)</b> <b>Note:</b> Remove tags before slaughter.	Cattle	Ear Tags		
<b>Go-Dry™ (Hanford's US Vet)</b> <b>Note:</b> Discard all milk for 72 hours following calving.	Dairy Cattle	IMM	14 d	
<b>Guardian® (Intervet/Merck Animal Health)</b>	Cattle	SubQ	60 d	
<b>Hetacin-K® Intramammary Infusion (Boehringer Ingelheim)</b>	Dairy Cattle	IMM	10 d	72 h
<b>Hexazol™ Injection (Norbrook)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Do not use in female dairy cattle 20 months of age or older.	Cattle	IM, SubQ	21 d	
<b>IMMUNOBOOST® (Bioniche Animal Health)</b>	Cattle	IV	21 d	
<b>INFORCE™ 3 (Zoetis)</b>	Cattle	IN	21 d	
<b>Ivermectin Pour-On (Generic)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Cattle	Topical	48 d	
<b>Ivomec® 1% Injection for Cattle and Swine (Meril)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Cattle Swine	SubQ SubQ	35 d 18 d	
<b>Ivomec® Plus Injection for Cattle (Meril)</b> <b>Note:</b> Do not use in calves to be processed for veal.	Cattle	SubQ	49 d	
<b>Ivomec® Pour-On for Cattle (Meril)</b> <b>Note:</b> Do not use in calves to be processed for veal.	Cattle	Topical	48 d	
<b>J-VAC® (Meril)</b>	Cattle	IM, SubQ	21 d	
<b>Leptoferm-5® (Zoetis)</b>	Cattle	IM	21 d	
<b>Liquamycin® LA-200® (Zoetis)</b>	Beef Cattle Dairy Cattle	IV, SubQ IV, SubQ	28 d 28 d	96 h
<b>LongRange™ (Meril)</b> <b>Note:</b> Do not use in calves to be processed for veal. Do not use in dry dairy cows. Do not use in female dairy cattle 20 months of age or older. Not for use in breeding bulls, or in calves less than 3 months of age. Not for use in cattle managed in feedlots or under intensive rotational grazing.	Cattle	SQ	48 d	
<b>Lutalyse® (Zoetis)</b> <b>Note:</b> Not for human use. Women of childbearing age, asthmatics, and persons with bronchial and other respiratory problems should exercise extreme caution when handling this product. Accidental spillage on the skin should be washed off immediately with soap and water.	Beef Cattle Dairy Cattle	IM IM	0 d 0 d	0 d
<b>Lysigin® (Boehringer Ingelheim)</b>	Dairy Cattle	IM	21 d	
<b>Laxcid Bolus (Merck's)</b>	Dairy Cattle	Oral		12 h
<b>Laxade Powder (Generic)</b>	Dairy Cattle	Oral		12 h
<b>Mannheimia-Haemolytica-Pasteurella-Multocida Bacterin (Colorado Serum)</b>	Cattle	SubQ	21 d	
<b>Masti-Clear® (Hanford's US Vet)</b>	Dairy Cattle	IMM	3 d	60 h
<b>Micotil® 300 Injection (Elanco)</b> <b>Note:</b> Not for use in female dairy cattle 20 months of age or older. Use in dairy cattle or sheep may cause milk residue. Not for human use. Injection of this drug in humans has been associated with fatalities. Keep out of reach of children. Do not use in automatically powered syringes. Exercise caution to avoid accidental self-injection. In case of human injection, consult as physician immediately and apply ice to injection site while avoiding direct contact with the skin. Emergency medical telephone numbers are 1-800-722-0987 or 1-800-428-4441.	Cattle Sheep	SubQ SubQ	42 d 42 d	
<b>MpB Guard™ (AgriLabs)</b>	Beef Cattle	SubQ	60 d	
<b>MU-SE® (Intervet/Merck Animal Health)</b>	Cattle	IM, SubQ	30 d	
<b>Nasalgen® IP (Intervet/Merck Animal Health)</b>	Cattle	IN	21 d	
<b>Naxcel® (Zoetis)</b>	Beef Cattle Dairy Cattle	IM, SubQ IM, SubQ	4 d 4 d	0 h
<b>NEOMED® 325 Soluble Powder (Bimeda)</b> <b>Note:</b> A milk discard period has not been established for this product in lactating dairy cattle. Do not use in female dairy cattle 20 months of age or older. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Cattle	dw	1 d	

<b>Neomycin Sulfate (Generics)</b> <b>Note:</b> A milk discard period has not been established for this product in lactating dairy cattle. Do not use in female dairy cattle 20 months of age or older. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Cattle	dw	1 d	
<b>Ivermectin Injection for Cattle and Swine (Generic)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Cattle	SubQ	35 d	
<b>Noromectin® Plus Injection for Cattle (Norbrook)</b> <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Cattle	SubQ	49 d	
<b>Noromycin 300 LA (Norbrook)</b> <b>Note:</b> Not for use in lactating dairy animals.	Cattle	IM, IV, SubQ	28 d	
 <b>NufflorGold™ (Intervet/Merck Animal Health)</b> <b>Note:</b> Do not use in calves to be processed for veal. Not for use in female dairy cattle 20 months of age or older.	Cattle	SubQ	44 d	
 <b>Nufflor® Injectable Solution 300 mg/ml (Intervet/Merck Animal Health)</b> <b>Note:</b> Do not use in calves to be processed for veal. Not for use in female dairy cattle 20 months of age or older.	Cattle Cattle	IM SubQ	28 d 38 d	
<b>NUPLURA™ PH (Novartis)</b>	Cattle	SubQ	60 d	
<b>Ocu-guard® MB-1 (Boehringer Ingelheim)</b>	Cattle	SubQ	21 d	
<b>Once PMH® SQ (Intervet/Merck Animal Health)</b>	Cattle	SubQ	21 d	
<b>One Shot® (Zoetis)</b>	Cattle	IM, SubQ	21 d	
<b>One Shot Ultra® 7 (Zoetis)</b>	Cattle	SubQ	21 d	
<b>One Shot Ultra® 8 (Zoetis)</b>	Cattle	SubQ	21 d	
 <b>Orbenin-DC® (Intervet/Merck Animal Health)</b> <b>Note:</b> Not to be used within 28 days of calving.	Dairy Cattle	IMM	28 d	
<b>Orbeseal® (Zoetis)</b>	Dairy Cattle	IMM	0 d	0 h
<b>Organic Iodine Powder (Iowa Veterinary Supply Co.)</b> <b>Note:</b> Do not administer to lactating dairy cattle.	Cattle	In the feed		
<b>Oxytet 100 (Generic)</b> <b>Note:</b> Do not use in calves to be processed for veal. Not for use in lactating dairy animals.	Cattle	IV	22 d	
<b>Oxytetracycline Injection 200 (Generic)</b>	Beef Cattle Dairy Cattle	IM, IV, SubQ IM, IV, SubQ	28 d 28 d	96 h
<b>Oxytocin (Generic)</b> <b>Note:</b> Not for human use. Women of childbearing age should handle with extreme caution.	Beef Cattle Dairy Cattle	IM IM	0 d 0 d	
 <b>panacur® Cattle Dewormer Suspension 10% (Intervet/Merck Animal Health)</b> <b>Note:</b> Do not use in calves to be processed for veal. Do not use at 10 mg/kg in dairy cattle. Dose rate of 10 mg/kg is for beef cattle only. Dose rate of 10 mg/kg in dairy cattle could result in violate residue in milk.	Cattle	Oral	8 d	
<b>Penicillin Long-Acting (Generic)</b> <b>Note:</b> Do not use in calves intended for veal.	Beef Cattle	SubQ	30 d	
<b>Pennox 343® Soluble Powder (PennField)</b> <b>Note:</b> A milk discard period has not been established for this product in lactating dairy cattle. Do not use in female dairy cattle 20 months of age or older.	Cattle	dw	5 d	
<b>PILIGUARD® Pinkeye-1 TRIVALENT (Intervet/Merck Animal Health)</b>	Cattle	IM, SubQ	60 d	
<b>Piliguard® Pinkeye TriView® (Intervet/Merck Animal Health)</b>	Cattle	SubQ	60 d	
<b>Pinkeye Shield® XT4 (Novartis)</b>	Cattle	IM	60 d	
 <b>PIRSUE® Sterile Solution (Zoetis)</b>	Dairy Cattle	IMM	9 d	36 h
 <b>Polyflex® (Boehringer Ingelheim)</b>	Beef Cattle Dairy Cattle	IM IM	6 d 6 d	48 h
 <b>Predef® 2X Sterile Aqueous Suspension (Zoetis)</b> <b>Note:</b> Do not use in calves to be processed for veal.	Cattle	IM	7 d	
<b>PregGuard® Gold FP® 10 (Zoetis)</b>	Cattle	IM	21 d	
<b>Preponse® HM (Boehringer Ingelheim)</b>	Cattle	IM	21 d	
<b>Preponse® SQ (Boehringer Ingelheim)</b>	Cattle	SubQ	21 d	
<b>PRO-BAC-C (Med-Vet Pharmaceuticals)</b> <b>Note:</b> Do not use in calves to be processed for veal. Do not use with other sources of lasalocid.	Cattle	mr		
<b>Pro-Pen-G® Injection (Bimeda)</b>	Beef Cattle Dairy Cattle	IM IM	4-7 d 4-7 d	48 h

<b>PROZAP® Zipcide® Dust</b> (Chem-Tech)	Beef Cattle Dairy Cattle	Topical Topical	0 d 0 d	0 h
<b>Pulmo-Guard® MpB</b> (Boehringer Ingelheim)	Beef Cattle	SubQ	60 d	
<b>Pulmo-Guard® PH-M</b> (AgnLabs)	Cattle	SubQ	21 d	
<b>Pulmo-Guard™ PHM-1</b> (AgnLabs)	Cattle	SubQ	60 d	
<b>Pyramid® 4 + Prespense® SQ</b> (Boehringer Ingelheim)	Cattle	SubQ	21 d	
<b>PYRAMID® 5</b> (Boehringer Ingelheim)	Cattle	IM, SubQ	21 d	
<b>PYRAMID® 5 + Prespense® SQ</b> (Boehringer Ingelheim)	Cattle	SubQ	21 d	
<b>PYRAMID® 10</b> (Boehringer Ingelheim)	Cattle	IM, SubQ	21 d	
<b>PYthon® Insecticide Cattle Ear Tags</b> (Y-TEX) <b>Note:</b> Remove tags before slaughter.	Cattle	Ear Tags	0 d	
<b>PYthon® Magnum™ Insecticide Cattle Ear Tags</b> (Y-TEX) <b>Note:</b> Remove tags before slaughter.	Beef Cattle Dairy Cattle	Ear Tags Ear Tags	0 d 0 d	0 h
<b>Quartermaster®</b> (Zoetis) <b>Note:</b> Animals infused with this product must not be slaughtered for use in food within 96 hours after calving. Not for use in lactating cows. This product must not be used within 6 weeks of the expected date of calving.	Dairy Cattle	IMM	60 d	96 h
<b>Quatracon-2X™</b> (Boehringer Ingelheim)	Cattle	SubQ	21 d	
<b>RALGRO® Implants for Beef Cattle</b> (Intervet/Merck Animal Health) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Do not use in bulls intended for reproduction or dairy animals. Do not use before 1 month of age or after weaning in heifers intended for reproduction.	Beef Cattle	Implant		
<b>REPEL-X® Emulsifiable Fly Spray</b> (Famom) <b>Note:</b> Do not apply directly to any animals destined for milking.	Cattle	Premise		
<b>ReproSTAR® L5HB</b> (Novartis (Farm Animal))	Cattle	SubQ	60 d	
<b>Resflor GOLD®</b> (Intervet/Merck Animal Health) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Do not use in female dairy cattle 20 months of age or older.	Cattle	SubQ	38 d	
<b>RESPISHIELD™ HM</b> (Merial)	Cattle	SubQ	60 d	
<b>Resvac® 4/Somubac®</b> (Zoetis) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Do not use in female dairy cattle 20 months of age or older.	Cattle	IM	21 d	
<b>Revalor®-200</b> (Intervet/Merck Animal Health) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food. Not to be used in dairy animals.	Beef Cattle	Implant		
<b>Revalor®-G</b> (Intervet/Merck Animal Health) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food. Not to be used in dairy animals.	Beef Cattle	Implant		
<b>Revalor®-H</b> (Intervet/Merck Animal Health) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food. Not to be used in dairy animals.	Beef Cattle	Implant		
<b>Revalor®-IH</b> (Intervet/Merck Animal Health) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food. Not to be used in dairy animals.	Beef Cattle	Implant		
<b>Revalor®-IS</b> (Intervet/Merck Animal Health) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food. Not to be used in dairy animals.	Beef Cattle	Implant		
<b>Revalor®-S</b> (Intervet/Merck Animal Health) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food. Not to be used in dairy animals.	Beef Cattle	Implant		
<b>Revalor®-XS</b> (Intervet/Merck Animal Health) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food. Not to be used in dairy animals.	Beef Cattle	Implant		
<b>Rumatel® 88</b> (Phibro)	Beef Cattle Goats	In the feed In the feed	14 d 30 d	0 h

<b>Saber™ Pour-On Insecticide</b> (Intervet/Merck Animal Health) <b>Note:</b> Do not apply to lactating or dry dairy cows. Not recommended for use on veal calves.	Beef Cattle	Topical		
<b>safe-guard® Cattle Dewormer Paste 10%</b> (Intervet/Merck Animal Health)	Beef Cattle Dairy Cattle	Oral Oral	8 d 8 d	0 h
<b>safe-guard® Dewormer for Beef &amp; Dairy Cattle and Goats Suspension 10%</b> (Intervet/Merck Animal Health) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Beef Cattle Dairy Cattle	Oral Oral	8 d 8 d	0 h
<b>safe-guard® Medicated Dewormer for Beef &amp; Dairy Cattle 0.5% Alfalfa-Based Pellets</b> (Intervet/Merck Animal Health)	Beef Cattle Dairy Cattle	In the feed In the feed	13 d 13 d	0 h
<b>safe-guard® Medicated Dewormer for Beef &amp; Dairy Cattle &amp; Swine (0.5% Top Dress Pellets 10 lbs)</b> (Intervet/Merck Animal Health)	Beef Cattle Dairy Cattle	In the feed In the feed	13 d 13 d	0 h
<b>safe-guard® Medicated Dewormer for Beef &amp; Dairy Cattle (Flaked Meal)</b> (Intervet/Merck Animal Health)	Beef Cattle Dairy Cattle	In the feed In the feed	13 d 13 d	0 h
<b>safe-guard® Medicated Dewormer for Beef Cattle (20% Protein Block)</b> (Intervet/Merck Animal Health)	Beef Cattle	Oral	16 d	
<b>safe-guard® Medicated Dewormer for Beef Cattle (En-Pro-AI® Molasses Block)</b> (Intervet/Merck Animal Health)	Beef Cattle	Oral	11 d	
 <b>Salmonella Newport Bacterial Extract</b> (Zoetis)	Cattle	SubQ	60 d	
<b>SCOUR BOS® 4</b> (Novartis (Farm Animal))	Cattle	IM	60 d	
<b>SCOUR BOS® 9</b> (Novartis (Farm Animal))	Cattle	IM	60 d	
<b>ScourGuard® 4 KC</b> (Zoetis)	Cattle	IM	21 d	
<b>Sodium Iodide 20%</b> (Generic) <b>Note:</b> Not for use in pregnant, lactating dairy cattle or animals that are exhibiting hyperthyroidism.	Cattle	IV		
<b>SolidBac® Pinkeye IR/PR</b> (Zoetis)	Cattle	SubQ	21 d	
<b>SOMUBAC®</b> (Zoetis)	Cattle	SubQ	21 d	
 <b>SPECTRAMAST® DC</b> (Zoetis)	Dairy Cattle	IMM	0-16 d	0 h
 <b>SPECTRAMAST® LC</b> (Zoetis)	Dairy Cattle	IMM	2 d	72 h
<b>SPIROVAC®</b> (Zoetis)	Cattle	SubQ	21 d	
<b>SPIROVAC® L5</b> (Zoetis)	Cattle	IM, SubQ	21 d	
<b>SPIROVAC® VLS</b> (Zoetis)	Cattle	IM, SubQ	21 d	
<b>StandGuard® Premise Insecticide</b> (Elanco) <b>Note:</b> Do not apply to lactating or dry dairy cows. Not recommended for use on veal calves.	Cattle	Premise		
<b>Streptococcus Uberis Bacterin</b> (Hygieia)	Dairy Cattle	SubQ	60 d	
<b>Sulfadimethoxine Injection - 40%</b> (Aspen) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Beef Cattle Dairy Cattle	IV IV	5 d 5 d	60 h
<b>Sulfadimethoxine 12.5% Oral Solution</b> (Generic) <b>Note:</b> Do not use in calves to be processed for veal.	Cattle	dw	7 d	
<b>Sulfadimethoxine Soluble Powder</b> (Generic) <b>Note:</b> A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.	Beef Cattle	dw	7 d	
<b>Sulfamethazine (Cow)</b> (Generic) <b>Note:</b> Do not use in lactating dairy cattle. Not for use in female dairy cattle 20 months of age or older.	Cattle	Oral	12 d	
<b>Sulfamethazine (Calf)</b> (Generic) <b>Note:</b> Not for use in female dairy cattle 20 months of age or older.	Cattle	Oral	12 d	
<b>Sulmet® Drinking Water Solution 12.5%</b> (Boehringer Ingelheim) <b>Note:</b> Not for use in female dairy cattle 20 months of age or older.	Cattle	dw	10 d	
<b>Sulmet® Oblets®</b> (Boehringer Ingelheim) <b>Note:</b> Not for use in female dairy cattle 20 months of age or older.	Cattle	Oral	10 d	
<b>Sulmet® Soluble Powder</b> (Boehringer Ingelheim) <b>Note:</b> Not for use in female dairy cattle 20 months of age or older.	Cattle	dw	10 d	
<b>Synanthic® Bovine Dewormer Suspension, 9.06%</b> (Boehringer Ingelheim)	Cattle	Oral	7 d	
<b>Synovex® C</b> (Zoetis) <b>Note:</b> Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food.	Beef Cattle	Implant		
<b>Synovex® Choice</b> (Zoetis) <b>Note:</b> Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food.	Beef Cattle	Implant		

<b>Synovex® H (Zoetis)</b> <b>Note:</b> Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food.	Beef Cattle	Implant		
<b>Synovex® Plus™ (Zoetis)</b> <b>Note:</b> Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food.	Beef Cattle	Implant		
<b>Synovex® S (Zoetis)</b> <b>Note:</b> Do not use in calves to be processed for veal. Implant in the ear only. Do not attempt to salvage the implanted ear for human or animal food.	Beef Cattle	Implant		
<b>Terramycin® Scours Tablets (Zoetis)</b> <b>Note:</b> Do not use in calves to be processed for veal. Not for use in lactating dairy animals.	Cattle	Oral	7 d	
<b>Tetanus Antitoxin, Equine Origin (Colorado Serum)</b>	Cattle	IM, SubQ	21 d	
<b>Tetracycline Soluble Powder 324 (AgniPharm)</b> <b>Note:</b> Do not use in calves to be processed for veal.	Cattle	dw	5 d	
<b>TetraMed® 324 HCA (Bimeda)</b> <b>Note:</b> Do not use in calves to be processed for veal.	Cattle	dw	5 d	
<b>Titanium® 5 (AgniLabs)</b>	Cattle	IM, SubQ	21 d	
<b>Titanium® 5 L5 HB (AgniLabs)</b>	Cattle	IM, SubQ	21 d	
<b>ToDAY® (Boehringer Ingelheim)</b>	Dairy Cattle	IMM	4 d	96 h
<b>ToMORROW® (Boehringer Ingelheim)</b> <b>Note:</b> Milk from treated cows must not be used for food during the first 72 hours after calving. Not to be used within 30 days of calving.	Dairy Cattle	IMM	42 d	72 h
<b>Triangle® 4 + HS (Boehringer Ingelheim)</b>	Cattle	IM, SubQ	21 d	
<b>Triangle® 4 + PH/HS (Boehringer Ingelheim)</b>	Cattle	SubQ	21 d	
<b>Triangle® 4 + PH-K (Boehringer Ingelheim)</b>	Cattle	SubQ	21 d	
<b>TRIANGLE® 5 (Boehringer Ingelheim)</b>	Cattle	IM, SubQ	21 d	
<b>Triangle® 9 + HS (Boehringer Ingelheim)</b>	Cattle	IM	21 d	
<b>Triangle® 9 + PH-K (Boehringer Ingelheim)</b>	Cattle	SubQ	21 d	
<b>TRIANGLE® 10 (Boehringer Ingelheim)</b>	Cattle	IM, SubQ	21 d	
<b>TSV-2® (Zoetis)</b>	Cattle	IN	21 d	
<b>Tylan® 50 Injection (Elanco)</b> <b>Note:</b> Do not use in calves to be processed for veal. Do not use in dry dairy cows. Not for use in female dairy cattle 20 months of age or older.	Cattle	IM	21 d	
<b>Tylan® 200 Injection (Elanco)</b> <b>Note:</b> Do not use in calves to be processed for veal. Do not use in dry dairy cows. Not for use in female dairy cattle 20 months of age or older.	Cattle	IM	21 d	
<b>ULTRABAC® 7 (Zoetis)</b>	Cattle	SubQ	21 d	
<b>ULTRABAC® 7/SOMUBACC® (Zoetis)</b>	Cattle	SubQ	21 d	
<b>ULTRABAC® 8 (Zoetis)</b>	Cattle	SubQ	21 d	
<b>ULTRABAC® CD (Zoetis)</b>	Cattle	SubQ	21 d	
<b>UltraChoice® 7 (Zoetis)</b>	Cattle	SubQ	21 d	
<b>ULTRABAC® CD (Zoetis)</b>	Cattle	SubQ	21 d	
<b>UltraChoice® 7 (Zoetis)</b>	Cattle	SubQ	21 d	
<b>UltraChoice® 8 (Zoetis)</b>	Cattle	SubQ	21 d	
<b>ULTRA SABRE™ Pour-On Insecticide (Intervet/Merck Animal Health)</b> <b>Note:</b> Do not apply to lactating or dry dairy cows. Not recommended for use on veal calves.	Beef Cattle	Topical		
<b>VALBAZEN® Suspension (Zoetis)</b>	Cattle	Oral	27 d	
<b>Vib Shield® Plus L5 (Novartis)</b>	Cattle	IM	60 d	
<b>Vira Shield® 6 (Novartis)</b>	Cattle	SubQ	60 d	
<b>Vira Shield® 6 + L5 (Novartis)</b>	Cattle	SubQ	60 d	
<b>Vira Shield® 6 + L5 HB (Novartis)</b>	Cattle	SubQ	60 d	
<b>Vira Shield® 6 + L5 HB Somnus (Novartis)</b>	Cattle	IM	60 d	
<b>Vira Shield® 6 + L5 Somnus (Novartis)</b>	Cattle	IM	60 d	
<b>Vira Shield® 6 + Somnus (Novartis)</b>	Cattle	IM	60 d	



<b>Vira Shield® 6 + VL5</b> (Novartis)	Cattle	SubQ	60 d
<b>Vira Shield® 6 + VL5 HB</b> (Novartis)	Cattle	SubQ	60 d
<b>Vision® 7 Somnus with SPUR®</b> (Intervet/Merck Animal Health)	Cattle	SubQ	21 d
<b>Vision® 7 with SPUR®</b> (Intervet/Merck Animal Health)	Cattle	SubQ	21 d
<b>Vision® 8 Somnus with SPUR®</b> (Intervet/Merck Animal Health)	Cattle	SubQ	21 d
<b>Vision® 8 with SPUR®</b> (Intervet/Merck Animal Health)	Cattle	SubQ	21 d
<b>Vista® 5 L5 SQ</b> (Intervet/Merck Animal Health)	Cattle	SubQ	21 d
<b>Vista® 5 SQ</b> (Intervet/Merck Animal Health)	Cattle	SubQ	21 d
<b>Vista® 5 VL5 SQ</b> (Intervet/Merck Animal Health)	Cattle	SubQ	21 d
<b>Vista® Once SQ</b> (Intervet/Merck Animal Health)	Cattle	SubQ	21 d
<b>Vita Charge® 28 Dispersible Powder</b> (BIOZYME)	Cattle	In the feed, mr	0 d
<b>Vita Charge® Bolus</b> (BIOZYME)	Cattle	Oral	0 d
 <b>Vitamin AD Injection</b> (Clipper (Phoenix Pharm.))	Cattle	IM, SubQ	60 d
<b>Warrior™ Insecticide Cattle Ear Tags</b> (Y-TEX) <b>Note:</b> Remove tags before slaughter.	Cattle	Ear Tags	0 d
<b>Wart Vaccine</b> (Colorado Serum)	Cattle	SubQ	21 d
 <b>ZACTRAN®</b> (Merial) <b>Note:</b> Do not use in calves to be processed for veal. Do not use in female dairy cattle 20 months of age or older.	Cattle	SubQ	35 d
 <b>ZUPREVO™ 18%</b> (Intervet/Merck Animal Health) <b>Note:</b> Do not use in calves to be processed for veal. Do not use in female dairy cattle 20 months of age or older.	Cattle	SubQ	21 d