

DRUG USE GUIDE:



Dairy Cattle

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IMPORTANT INFORMATION

1. Most of the drugs used in the dairy industry can leave a potentially harmful residue in tissue and milk. More than half the drug products FDA (Food and Drug Administration) has approved require pre-slaughter drug withdrawal or milk discard periods. This withdrawal is necessary to protect consumers from drug residues.
2. Failure to properly withdraw a drug before slaughter or marketing of milk can result in marketing delays, condemnation of cattle and/or regulatory actions under the Federal Food and Drug Laws.
3. The pre-slaughter and milk-discard withdrawal time of each drug is given in the number of days that must pass between the last treatment with the drug and the day on which the animal may be shipped for slaughter or the milk marketed. **It is important that this withdrawal period be calculated accurately.** If your animals or milk are found to contain illegal drug residues, you may be held legally responsible for the shipment of adulterated food in interstate commerce.
4. When calculating the withdrawal time it is important to keep in mind that each withdrawal day is a full 24 hours starting with the hour in which the drug was last given to the animal. Remember, if the drug is delivered through the animal's water or feed supply the pre-slaughter withdrawal time begins when the animal stops drinking water or eating feed containing the drug.

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DAIRY CATTLE DRUG LIST

NON-LACTATING COWS (Injectable Use)

Active Ingredients	Withdrawal Days	Brand Name Examples
Oxytetracycline	15	"TERRAMYCIN 100"
	18	"OXY-TET 50" "OXY-TET 100"
	19	"RACHELLE OXYVET INJECTION" "AQUACHELLE-100" "OXYVET-100"
	20	"OXYJECT"
	22	"OXYTETRACYCLINE HCL"

NON-LACTATING COWS (Oral Use)

Famphur (feed)	4	"FAMIX FAMPHUR PREMIX"
Ronnel (feed)	10 (before slaughter, or freshening)	"TROLENE 18% SALT PREMIX" "TROLENE FM 40"
Sulfadimethoxine	7	"ALBON 2.5" "AGRIBON 2.5"

NON-LACTATING COWS (Topical Use)

Famphur	35	"ANCHOR FAMPHUR" "BO-ANA" "PURINA GRUB KILL" "WARBEX-13.2%"
Fenthion	35 (add 45 days if retreated)	"TIGUVON POUR ON"

Note: This publication carries only drug withdrawal and milk discard time information. You will find other information to the safe and effective use of these drugs in the drug labeling.

LACTATING COWS (Injectable Use)

Active Ingredients	Milk Discard Milkings (Hours)	Withdrawal Days	Brand Name Examples
Erythromycin	6(72)	-----	"ERYTHROCIN INJECTABLE"
Procaine Penicillin G	6(72)	5	"PRO-PEN G"
Procaine Penicillin G and dihydrostreptomycin	4(48)	30	"DISTRYCILLIN A.S." "MYCILLIN V" "PEN-MYCIN" "PRO-PEN IN DIHYDRO- STREPTOMYCIN"
	6(72)	30	"COMBIOTIC" "PENSTREP"
Sulfadimethoxine	5(60)	5	"AGRIBON 40% INJECTION"
Sulfamethazine	8(96)	10	"SULMET 12.5% INJECTABLE SOLUTION"
Tylosin	8(96)	8	"TYLAN-50" "TYLAN-200"

LACTATING COWS (Oral Use)

Sulfabromomethazine	8(96)	10	"SULFABROM 2.5 GM"
Sulfadimethoxine	5(60)	7	"AGRIBON 2.5 GM" "ALBON 2.5 GM"
Sulfamethazine	8(96)	10	"SULMET OBLETS"
Sulfisoxazole	8(96)	10	"SOXISOL TABLETS"
Thiabendazole	8(96)	3	"OMNIZOLE 6.6%" "TBZ WORMER PASTES" "THIBENZOLE (15 GM)"

Note: These drug withdrawal and milk discard periods may not apply if other drugs or pesticides requiring a pre-slaughter drug withdrawal or milk discard periods have been used in the animal.

INTRAMAMMARY INFUSION DRUGS

DRY COW USE

Active Ingredients	Milk Discard Milkings (Hours)	Withdrawal Days	Brand Name Examples
Nitrofurazone	6(72)	-----	"FURACIN SOLUTION VET"
Novobiocin	-----	30	"BIODRY"; "NOVO-DRY"

LACTATING COW USE

Cephapirin sodium	8(96)	4	"CEFA-LAK"; "TODAY"
Procaine penicillin G	5(60)	3	"FORMULA A-34"
Procaine penicillin G	5(60)	4	"HANFORD'S FOUR-PEN" "HANFORD'S AQUA-PEN"
Penicillin (100k) and novobiocin (150 mg)	6(72)	15	"ALBACILLIN" "SPECIAL FORMULA 17900 FORTE"

DRY OR LACTATING COW USE

Erythromycin	3(36)	-----	"GALLIMYCIN 36"
Furaltadone	8(96)	-----	"VALSYN GEL"
Oxytetracycline	8(96)	4	"LIQUAMAST" "TERRAMYCIN"

Note: Pre-slaughter drug withdrawal times are not listed for some drugs in this publication because the withdrawal times have not been established. Also, in addition to the over-the-counter (OTC) mastitis drugs listed there are some 65 other OTC drugs and drug combinations currently on the market under the provisions of a court order barring FDA efforts to have the products removed because of insufficient evidence of effectiveness.

DAIRY CALF DRUG LIST

DAIRY CALF DRUGS (Injectable Use)

Active Ingredients	Withdrawal Days	Brand Name Examples
Dihydrostreptomycin sulfate	30	"DIHYRDOSTREPTOMYCIN SULFATE INJECTION" "DIHYDROSTREPTOMYCIN"
Erythromycin	14	"ERYTHROMYCIN INJECTABLE"
Levamisole	7	"RIPERCOL L" "TRAMISOL"
Oxytetracycline	15	"TERRAMYCIN 100"
	18	"OXY-TET 50" "OXY-TET 100"
	19	"AQUACHELLE 100"
	20	"OXYJECT"
	22	"OXYTETRACYCLINE HCL" "TERRAMYCIN"
Procaine Penicillin G	5	"PRO-PEN G"
Procaine Penicillin G and dihydrostreptomycin sulfate	30	"COMBIOTIC"
		"DISTRYCILLIN A.S."
		"MYCILLIN V"
		"PENSTREP" "PRO-PEN G IN DIHYDRO- STREPTOMYCIN SULFATE"
Sodium sulfachlorpyridazine	5	"PRINZONE" "VETISULID"
Sulfamethazine	10	"SULMET 12.5%"
Sulfadimethoxine	7	"AGRIBON-40%"
Tylosin	8	"TYLAN 50"
		"TYLAN 100"

DAIRY CALF DRUGS (Oral Use)

Active Ingredients	Withdrawal Days	Brand Name Examples
Amprolium	1	"AMPROLIUM .025% and .0125%" "AMPROL" "AMPROVINE 25%" "CORID 25%"
Chlorhexidine dihydrochloride and dihydrostreptomycin sulfate	3	"NOLVASORB SUSPENSION"
Chlortetracycline hydrochloride	1	"ANCHOR PNEUMONIA/ CALF SCOUR BOLUSES" "VI-MYCIN (water)" "CTC HCL POWDER"
Chlortetracycline bisulfate (water)	3	"CTC BISULFATE POWDER"
Chlortetracycline and neomycin	1	"CALF SCOUR OBLETS"
Haloxon	7	"LOXON BOLUS"
Levamisole hydrochloride	2	"LEVASOLE BOLUS"
Streptomycin	30	"VETSTREP 25%" "BIOTIC 25%"
Sulfabromomethazine	10	"SULFABROM"
Sulfachlorpyridazine	10	"VETISULID BOLUS" "PRINZONE BOLUS"
Sulfadimethoxine	7	"AGRIBON SOLUBLE POWDER" "ALBON 12.5% SOLUTION"
Sulfamethazine	10	"SULMET OBLET"
Sulfamethazine, streptomycin, phytalsulfathiazole, and kaolin	10	"SULFASTREP"
Tetracycline hydrochloride (water)	5	"TETRACYCLINE-VET" "TETRA-SOL"
Thiabendazole	3	"OMNIZOLE 6.6% CRUMBLES" "THIBENZOLE 100"

DAIRY CALF DRUGS (Topicals)

Famphur	35	"ANCHOR FAMPHUR" "BO-ANA POUR-ON" "PURINA GRUB-KILL" "WARBEX FAMPHUR-13.2%"
Fenthion	35 (add 45 days if retreated)	"TIGUVON POUR ON"
	45	"SPOTTON"

Note: New research data may alter withdrawal times during the life of this publication. In all cases the drug user should follow the instructions for proper use in the drug labeling, package inserts and on feed tags.

DRUG USE TIPS

1. **Read drug labels carefully.** Hundreds of changes are made in drug labels each year and many of these changes affect the way you should use drugs in treating your valuable animals.
 2. Use drugs only in the animal species indicated on the label. Drugs meant for one kind of animal can cause adverse drug reactions or illegal drug residues in another species.
 3. Always make sure you are giving the proper amount of drug for the kind and size of the animal you are treating. Overdosing can cause drug residue violations.
 4. Make sure you are calculating pre-slaughter and milk drug withdrawal times accurately. Remember, most withdrawal times begin with the last drug administration.
 5. Always use the correct route of drug administration. Giving oral drugs by injection can cause loss of drug effectiveness and giving injectable drugs incorrectly can lead to adverse reactions, reduced effectiveness, illegal drug residues, and possibly the death of a fine animal.
 6. Avoid "double-dosing" your animals. Using the same drug in the feed supply and then by injection can cause illegal residues.
 7. Keep an accurate record of the drugs you use and identify the animals receiving the drugs.
 8. Good drug use records also help when you need professional animal health care. Your veterinarian needs to know how much and what kinds of drugs have been given before he can treat your animals effectively and safely.
 9. When injecting animals, select your needles and injection sites with care. Depending on the animal—and sometimes the drug—the wrong needle size, spacing or number of injection sites, or the amount of drug per site can result in tissue damage, reduced drug effectiveness or illegal drug residues.
 10. Remember, feeds containing drugs also can cause illegal residues. Make sure you have a reliable source of drug-free feed for your animals to eat during withdrawal periods and that your storage bins and feed troughs are cleaned thoroughly before withdrawal feed is put in them.
- *** For a complete explanation of all the precautions you need to take in using any particular drug or feed medication, first consult the drug label or feed tag. If you have any questions about the proper use of any drugs see your feed dealer or veterinarian.

The material included in this presentation in part has been taken from the H.E.W. Publication, FDA 78-6014, Drug Use Guide, June, 1978.

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