

Micotil[®] 300

(tilmicosin injection)

Safety Course

Right for cattle. Right by you.



Micotil[®]300

(tilmicosin injection)

Safety Course

Course Format and Learning Objectives

Welcome to the Micotil® Safety Course. Micotil® is an effective and game-changing tool to have in your tool kit against BRD—however, like any injectable, safety is the number one priority. Micotil should only be handled after the completion of the Micotil Safety Course to ensure the lowest risk possible of self-injection.

The Micotil® Safety Course is a four-module educational course:

- Module 1: Micotil® Overview and User Expectations
 - Micotil® Label Indications
 - Micotil® Boxed Warning
 - Micotil® User Expectations
- Module 2: Important Safety Information
 - Micotil® SAFE Principles
 - Micotil® Accidental Human Exposure
- Module 3: Safe Handling and Administration
 - Administration Recommendations
 - Usage Guidelines
 - Micotil® Shroud and Sekurus™ Safety Injector
 - Administration Technique
 - Micotil® How to Shroud Video
- Module 4: Micotil® Storage Recommendations, Review of Micotil® Label Indications and Micotil® Boxed Warning
 - Micotil® Storage Recommendations
 - Micotil[®] Label Indications
 - Micotil® Boxed Warning

By the end of this four-module educational course, you will be prepared for the responsible use of Micotil®. Once you take the course and complete your certification form submission, your name will be added to our Safe to Sell list and you will be given a certificate of completion which will allow you purchase and administer Micotil®.



Micotil[®] (tilmicosin injection)

Safety Course

Module 1: Micotil® Overview and User Expectations

All products have the potential to be misused or used in an unsafe manner. It is important to understand the product label and the user expectations to ensure proper safety and administration for users and animals. This module will explain the:

- 1. Micotil[®] Label Indications
- 2. Micotil[®] Boxed Warning
- 3. Micotil[®] User Expectations



Module 1: Micotil® Overview and User Expectations

Elanco



250 mL

(tilmicosin injection) 300 mg tilmicosin, USP as tilmicosin phosphate per mL

For Subcutaneous Use in Cattle and Sheep Unity Solio Para Uso Subcutáneo en Ganado Vacuno y Ovino Approved by FDA under NADA # 140-929

Approved by PAI where MAD # 140-825 where the standard series of the standard series and standard series of the s Description: Micotil filmicosin injection) is a solution of the antibiotic tilmicosin. Each mL contains 300 mo of tilmicosi USP as tilmicosin phosphate in 25% propylene phycol, phosphoric acid as needed to adjust pH and water for injection O.S. Tilmicosin, LISP is produced semi-surfictingly and is in the macrifide class of artificities.

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Micotil debe usarse con un conector de ajuste rápido hecho especificamente para su uso. Contacte a Elanco o al distrituídor para obtener este equipo, Lea la ficha técnica, incluidas las Prácticas De Manejo Seguro, antes

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Note: Swelling at the subcutaneous site of injection may be observed.

nerve convergence of the second of the secon and non-human primates. Death following exposure to tilmicosin injection has been reported to FDA/CVM in poats, rabbits, pheasants, pigs, dogs, deer, cats, alpacas, and horses.

Writing: BRANK BRANK BRANKS, Ber for human can, Rejection of this drug is humans has been associated with friddline. IRANA BRANK BRANKS, Ber for human can, Rejection of this drug is humans has been associated with friddline. IRANA BRANK BRANKS, Ber for human can be applied on the state of the state of the state of the state present of projects, Rejection, and an applied in monthly and apply to no of place to injection in the while modiling direct donated with the lake. There proves, modical behaviore methors as 10-307-2003 OF 10-407-24444L. Add contact with the lake, type or moder methodense.

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Residue Warnings: Animate intended for human consumption must not be staughtered within \$2 days of the last Instanten. Hoff to re use in lactating dairy cattle 2 downths of age or disk. Use of thimicosin in this dass of cattle may cause milk residues. Not for use in lactating eves producing milk for human comamption. Precautions: The effects of timicosin on bovine and ovine reproductive performance, pregnancy and lactation have not been determined. In trim loss of edible tissue at slaughter, nined. Intramuscular injection will cause a local reaction which may result in Adverse Reactions: The following adverse reactions have been reported post-approval: In cattle: injection site swelling and inflammation lameness, collarse, anaphylaxis/agaphylactoid reactions, decreased food and dysonea and death

For additional information about reporting advense drug experiences for animal drugs, contact FDA at 1-888-FDA-VETS or http://www.tda.gov/reportanimatae

1-886-FOA-XTS or the JowenSt againsplantmask spectra of Biotecoin Injection Injection A spectra of the State St subcutaneous injection of Micotil at 10 mg/kg of body weight, tilmicosin concentrations in excess of 4 µg/mi were maintained in the alwoolar macrophages and neutrophils of most catille for at least 10 days. The clinical elevance of these findings has not been determined.

Microbiology: Territorisin has an in vitro antibacterial spectrum that is predominantly Gram-positive with activity against certain Gram-negative microorganisms, in vitro activity against several Mycoplasma spectras also been observed.

iso been observed. Moreover, in a mil-Securitor field exactly 1520 defers with matching occuring BOD mere hand with meters in a mil-Securitor field exactly in the security of the milest exactly and a milest and a mile and attitude out activity, romain respection, and a model improvement of eX-104° For D gradies Significantly higher ("model") model in Security and exactly Significant and a milest exact colless Si, During the transmission phase of the study, there were 10 BDP-related deaths in the Model-Security compared to 47 milest and milest-heated colless.

Animal Safety: A safety study was conducted in feeder calves receiving subcutaneous doses of 20, 30, 40, or 60 mg/kg of body weight, injected 3 times at 72-hour intervals, Death was not seen in any of the treatment groups, Injection site swelling and mild hemonthage at the injection site were seen in animals in all dosage groups, Lesions were described as being generally more severe and occurred at higher frequency rates in the animals treated with higher doses of filmicosin. Lameness associated with the injection site was noted in two of twenty-lova animals (one animal in the 30 mg/kg body weight treatment group and one animal in the log mg/kg traatment group). No other drug nettated feations were observed manascopically or microacycically. Decreases in food and water consumption were noted in all treatment groups compared to the control group. A separate safety study conducted in feeder calives, subcutaneous doses of 10, 30, or 50 mg/kg of body wolcht, injected 3 times at 72-hour intervals did not cause any deaths. Edema at the site of injection was cted. The only lesion observed at necropsy was minimal myocardial necrosis in some animals dosed at

but thong, and and the data production and a second secon

Toxicology: The heart is the target of toxicity in laboratory and domestic animals given Micotil (tlimicosi injection) by oral or parenteral notes. The primary cardiac effects are increased heart rate (tachycardia) and decreased contractility (negative inotropy). Cardiovascular toxicity may be due to calcium channel blockade. Upon subcutaneous injection, the acute median letitial dose of filmicosin in mice is 97 mg/kg, and in rats is 185 mg/kg of body weight. Given orally, the median letitial dose is 800 mg/kg and 2250 mg/kg body weight in fasted and nonfasted rats, researchively.

to compound-related lesions were found at necropsy. In doos, intravenous calcium offset Micotil-induced tachycardia and negative instrony, restoring arterial pulse ssure. Dobutamine partially offset the negative instropic effects induced by Micotil in doos, B- adrenergic intaconists, such as progranolol, exacerbated the negative instruct of Micotil in doos,

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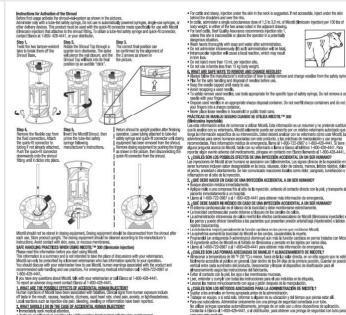
Results of genetic toxicology studies were all negative. Results of teratology and reproduction studies in rats

were negative. The no effect level in dogs after daily oral doses for up to one year is 4 mg/kg of body weight. Storage Conditions: Store at or below 88°F (30°C), Protect from direct surlight, Use within 84 days of first purchare. Store upright between product dispensing. Disconnect and dean dosing equipment for storing as per monoff-back's instruction. per manifacture's instructions. Conservar a 8 of "Co", Driboger de la fuz solar directa, Usar dentro de los 84 dias de la primera punción, Giardar en posición vertical entre cada suministro del producto, Desconcetur y Impiar el dispositivo de dordinación para a diamonamiente basgita la instrucciones del historiante, To report adverse effects, accesse medical information, or obtain additional product information, cal 1-900-428-4441.

How Supplied: Micotil (tilmicosin injection) is supplied in 250 ml, multi-dose amber glass bottles in a non-removable polymer protecto Manufactured for: Banco US, Inc., Greenfield, IN 46140, USA Revised: 09/2021

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Introductry seek mencia attention.
 Apply ice or cold pack to injection site, while avoiding direct contact with the skin, and transport immediately to a hospital.
 Call 1-800-722-0987 or 1-800-428-4441 for further emergency information,

 Call Hold 722-080 (PH-012-02-0441 b) future enginesity intromano.
 Call Hold 722-080 (PH-012-04-0441 b) future enginesity intromano.
 Call Alexandra Marcines (PH-012-04-0441 b) for an enginesity interference of an enginesity interference o Annualdi (a beta-adremengic antagonist) further decreased cardiac function in dogs given Micoti active logredient in Micotil s tilmicosin phospirate and pensists in tissue for several days, 11-800-722-0987 or 1-800-428-4441 for further emergency information. • Cut Hours/2020/07/2008 of Hours-20-444 to state energies framework instance. In Cut Hours/2020/07/2008 of Hours-2004 in Cut Hours-2004 instance and a sconability to the general public Sconar of table with CPUC), cut of direct tables, in cub Hourson, or earlies accountable to the general public. Use with Hours Hours (2020), cut of direct tables in cub Hourson, or earlies accountable to the general public accountable of the general sconario in the sconario sconari sconario sconario sconario sconario scon

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 Dispose used models in an appropriate sharps disposal container. Do not evenfill sharps containers and do not put ACTICAS DE MANEJO SEGURO CUANDO SE UTILIZA MICOTIL™ 300 Imicosina inyectable) a esta información antes de comenzar a utilizar Micotil, Esta información es un resumen y no preferde sustituir Las etta información artín de conversar a ultitar Mortil, Esta información eu mesamen y o prioritoria autilitaria de a hardio con su visionaria. Mesta il daminer a ultitaria Mortil Esta información eu prioritoria o una la focal targa a información respectiva de a información, alter distributaria con su venteriaria consu a Mortil esta de antica de ana venteriaria de la consu esta de la consultaria de la consultaria de la consultaria prioritaria de la consultaria al presentadas. Para internación intega de emergencia de la consultaria de la consultaria de la consultaria al presentadas de la consultaria de porte a presenta de la consultaria de porte, a consultaria de la consultaria de nacionaria de la consultaria de la consultaria de la consultaria de porte, a consultaria de la consultaria de nacionaria de la consultaria de nacionaria de la consultaria de la consultaria de porte, a consultaria de la consultaria de nacionaria de nacionaria de la consultaria de nacionaria de la consultaria de la consultaria de porte, a consultaria de la consultaria enconsulta de nacionaria de la consultaria de la consultaria de la consultaria de nacionaria de nacionaria de la consultaria de nacionaria de la consultaria de la consultaria de la consultaria de la consultaria de nacionaria de la consultaria de nacionaria de la consultaria de nacionaria de la consultaria de la consultaria de la consultaria de nacionaria de la consultaria de nacionaria de la consultaria de la consultaria de nacionaria de la consultaria de la consultaria de la consultaria de nacionaria de la consultaria de la consultaria de la consultaria 2. ¿QUÉ DEBO HACER EN CASO DE UNA INVECCIÓN ACCIDENTAL A UN SER HUMANO? Busque atención médica inmediatamente.
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Micotil[®] 300 (tilmicosin injection) Label Indications

- Micotil[®] is indicated for the treatment of • bovine respiratory disease (BRD) associated with Mannheimia haemolytica, Pasteurella multocida and *Histophilus somni* and for the treatment of ovine respiratory disease (ORD) associated with Mannheimia haemolytica
- Micotil[®] is indicated for the control of respiratory disease in cattle at high risk of developing BRD associated with Mannheimia haemolytica

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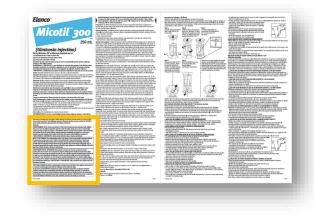
Module 1: Micotil® Overview and User Expectations

Before using this product, it is important to read the entire product insert, including the boxed human warning.

CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian.

HUMAN WARNINGS: Not for human use. Injection of this drug in humans has been associated with fatalities. Keep out of reach of children. Administer only with a tube-fed safety syringe. Do not use in automatically powered syringes, single-use syringes or other delivery devices. Exercise extreme caution to avoid accidental self-injection. In case of human injection, consult a physician immediately and apply ice or cold pack to injection site while avoiding direct contact with the skin. Emergency medical telephone numbers are 1-800-722-0987 or 1-800-428-4441. Avoid contact with skin, eyes or mucous membranes.

Note To The Physician: The cardiovascular system is the target of toxicity and should be monitored closely. Cardiovascular toxicity may be due to calcium channel blockade. In dogs, administration of intravenous calcium offset Micotil-induced tachycardia and negative inotropy (decreased contractility). Dobutamine partially offset the negative inotropic effects induced by Micotil in dogs. ß-adrenergic antagonists, such as propranolol, exacerbated the negative inotropy of Micotil in dogs. Epinephrine potentiated lethality of Micotil in pigs. This antibiotic persists in tissues for several days.



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Module 1: Micotil® Overview and User Expectations

Expectations of ALL Micotil® Users

- Become certified to purchase and administer Micotil®
- Take time to read the full product label and packaging
- Display chute-side poster in all treatment facilities
- Communicate regularly with staff to reinforce good safety practices when working with animals
- Review Micotil[®] Safe Handling & Use annually with all staff
- Train all new staff prior to allowing the use of any injectable product, including Micotil[®]
- Follow Proper Drug Use Principles
 - Read, understand and follow all label use directions; in particular, observe all caution statements and human warnings
 - Consult with your veterinarian to determine which product is most appropriate for your situation
- Store Micotil[®] in a secure location

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and Mootil is indicated for the treatment of bourse respiratory disease (BPC) associated with mix haemolytica, Pasteurelia multipaida and Histophilus sommi, and for the control of respiratory in cettle at high risk of developing BPD associated with M. resmolytica.	Animal weight (lbs.)	1.5 mL/100 lbs. body weight	MICOTIL DOSAGE 2.25 mL/100 lbs. body weight	3 mL/100 lbs. body weight
and administration: Inject subcutaneously only. In cattle, administer a single subcutaneous 10 to 20 mg/lig of body weight (1 to 2 mL/30 kg or 1.6 to 3 mL per 100 lice). Do not inject more mL per injection site.	200	3.00	4.50	6.00 9.00
werning: Micetil has a withdrawal time of 42 days, regardless of dose.	400	6.00	9.00	12.00
PER MICOTIL HANDLING PROCEDURES	500	7.60	11.25	15.00
Mootil in a secure location to prevent the risk of misuse.	600	9.00	13.50	18.00
Recommended storage includes a lockable cabinet or container or a secure storage room, depending on the amount of product in inventory.	700	10.60	15.75	21.00
p full or empty Micotli bottles, used syringes and needles out of the reach of children and general public.	800	12.00	18.00	24.00
d, understand and follow all label use directions. suboutaneous use. Do not use in automatically powered syringes.	900	13.50	20.25	27.00
a 1/2° to 5/8° 18- or 16-gauge needle. 3 a protective cover on needles until ready to use. ar cany loaded symges in pockets or by hand.	1,000	15.00	22.50	30.00
In hands thoroughly with scap and water after handling, ess to Micotil should be limited to personnel trained in safe handling use procedures.	Elanco	-	Barta Broken fordermaki in term Barta Broken fordermaki in term Barta Broken forder dari kara Santa Broken forder dari kara Santa Broken forder dari kara Santa Broken forder dari kara Kara Broken forder dari kara ata Kara Broken forder dari kara ata Kara Broken forder dari kara ata	
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Module 1: Micotil® Overview and User Expectations

Expectations of ALL Micotil® Users

Take time to read the Client Dispensing Information

- Easy to read and understand format
- Contains:
 - Proper Micotil[®] Administration Procedures
 - Protective Shroud and Safety Syringe
 - Proper Handling Procedures
 - Important Safety Information
 - What to do in case of accidental self-injection
 - Who to call if you have questions

	PROPER HANDLING PROCEDURES				
	 Store Micotil in a lockable cabinet, container or a secure storage room to prevent the risk of misuse is recommended. 				
	 Recommended storage includes a lockable cabinet or container or a secure storage room, depending on the amount of product in inventory. 				
Micotil is indicated for treatment of BRD associated with Mannheimia haemolytica, Pasteurella multocida and Histophilus	 Keep full or empty Micotil bottles, used syringes and needles out of the reach of children and the general public. 				
somni, and for the control of respiratory disease in cattle at high risk of developing BRD associated with <i>M. haemolytica</i> .	- Read, understand and follow all label use directions.				
PROPER MICOTIL ADMINISTRATION PROCEDURES	 Micotil must be used with the quick-fit connector made specifically for its use. Contact Elanco or your distributor for this equipment. 				
 Properly restrain animals prior to administering Micotil. 	For subcutaneous use. Do not use in automatically				
 With a single hand on the syringe, insert the needle 	 For subcutaneous use. Do not use in automatically powered syringes. 				
subcutaneously, at a top-down angle, while avoiding penetration of underlying muscle.	 Use a 1/2" to 5/8" 18- to 16-gauge needle. 				
Administer a single subcutaneous dose of 1.5 to 3 mL of	 Keep a protective cover on needles until ready to use. 				
Micotil per 100 lbs. of body weight in the area.	 Never carry loaded syringes in pocket or clothing. 				
 Administer a single subcutaneous dose of 1.5 mL to 3 mL of Micotil per 100 lbs. of body weight. 	Wash hands thoroughly with soap and water after handling. Access to Micotil should be limited to personnel trained in				
 Ensure proper disposal of needles, syringes and used bottles. 	safe handling and use procedures.				
 If syringe is broken or damaged in any way, discontinue use immediately. 	WHAT TO DO IN CASE				
 Exercise caution and care when removing needle from syringe. 	OF SELF-INJECTION				
PROTECTIVE SHROUD AND SAFETY SYRINGE	Seek immediate medical attention and:				
Micotil is supplied with a protective, ergonomic case called a					
shroud and a safety syringe. For your safety, the shroud cannot be removed. Micotil should only be administered with the					
provided tube-fed safety syringe. This safety syringe leverages					
self-tenting and needle-guard features. The syringe reduces the chance of accidental self-injection and withstands the most	REACH REFERENCE REMEMBER				
challenging environments. Reference the product administration	for and apply product label and to call SafetyCall				
guide for detailed instructions when working with the shroud and safety syringe.	ice pack provide to emergency at 800-722-0987 medical personnel or Elarco at 800-428-4441				
Operation name	_ Signed Producer				
Operation address	Date				
Deeration city, state and ZIP					
Number of animals Location	Signed Doctor				
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SAFE	Right for cattle. Right by you.				

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Module 1: Micotil® Overview and User Expectations

Expectations of Veterinarians

- Veterinarians should be trained and recertified by Elanco representatives or complete the online training modules.
- Veterinarians should discuss Micotil[®] safe handling and use with their clients and work with clients to define a proper, secure storage location prior to dispensing.
- Dispense Micotil[®] when a valid Veterinarian-Client-Patient Relationship (VCPR) is in place.
- Veterinarians should develop their own procedure to document (i.e., Safe to Sell list) which clients have been trained.

Expectations of Suppliers

- Suppliers should be trained and recertified by Elanco representatives or complete the online training modules
- Suppliers should discuss Micotil[®] safe handling and use with their clients before dispensing Micotil[®].
- Suppliers should develop their own procedure to document (i.e., Safe to Sell list) which clients have been trained.
- Upon receipt of Micotil[®] orders, suppliers should check their Safe to Sell list to ensure accounts are active before dispensing

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<text></text>	inheimic haemolytica, Pasteurelia multocida and Histophilus somni, and for the control of respirato	ith Animal any weight (lbs.)		2.25 mL/100 lbs.	3 mL/100 lbs. body weight
<section-header></section-header>	sage and administration: Inject suboutaneously only. In cattle, administer a single suboutaneously only. In cattle, administer a single suboutaneous of 10 to 20 mg/kg of body weight (1 to 2 mL/30 kg or 1.8 to 3 mL per 100 lbs.). Do not inject mo	20			
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<text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text>	Keep full or empty Micotil bottles, used syringes and needles out of the reach of children a	nd.			
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<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	Keep a protective cover on needles until ready to use.	1,000	10.00	22.00	uni.00
<text><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></text>	Wash hands thoroughly with scap and water after handling.	50 		. Antallaine bind meridian	committee and of the designed of the

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Module 1: Micotil® Overview and User Expectations

As you can see, a proper understanding of the label indications and user expectations reduces the potential for products to be misused or used in an unsafe manner.

Our next module will go on to cover an overview of Important Safety Information for Micotil[®].





Micotil[®] (tilmicosin injection)

Safety Course

Module 2: Important Safety Information Overview

Safety is imperative when handling any injectable product, including Micotil[®]. This module will explain the:

- 1. Micotil[®] SAFE Principles
- 2. Micotil[®] Accidental Human Exposure



Module 2: Important Safety Information Overview

Safe Use Principles

- Principle 1: **S**afety for you (caregiver)
- Principle 2: Animal Safety
- Principle 3: **F**ood Chain Safety
- Principle 4: Environmental Safety



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Module 2: Important Safety Information Overview

Safe Use Principles: Principle 1 Safety for you (caregiver)

Exercise Caution to Avoid Accidental Self-injection

- Keep children and bystanders out of work area
- Properly restrain all animals
- Be aware of uneven or changing walking surfaces
- NEVER work alone always work in a team
- Clearly establish a team leader and roles
- Evaluate the experience of those around you
- Identify an exit route



Right for cattle. Right by you.



Module 2: Important Safety Information Overview

Safe Use Principles: Principle 1 Safety for you (caregiver)

Syringe and Needle Precautions

- Keep needles properly covered until use
- Exercise caution and care when removing needle from syringe to not pierce skin with needle
- ALWAYS use safety syringe with quick connect draw off tubing
 - Elanco **ONLY** recommends use of the SekurusTM Safety Injector, which features a two-stage activation process to reduce risk of accidental injection
 - Do not use in automatically powered syringes (hydraulic, CO2 or needleless) where delivery of injection cannot be controlled
 - Do not use non-safety self refilling syringes or disposable syringes
 - Handle loaded syringes with care
 - Carry syringe in proper manner to ensure safe handling
 - Only carry loaded syringes in a tote or container; NEVER carry loaded syringes in your clothing
 - If syringe is broken or damaged in any way, discontinue use immediately and replace



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Module 2: Important Safety Information Overview

Safe Use Principles: Principle 2 Animal Safety

- Use adequate facilities
 - Squeeze chute
 - Head gate
- Minimize handling stress in accordance with animal behavior
- Adjust your activity to the temperament of each animal
- If an animal cannot be properly restrained or there is concern about operator skill, consider using alternative treatments



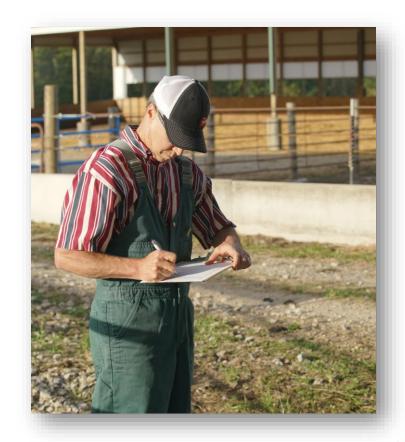
Right for cattle. Right by you.



Module 2: Important Safety Information Overview

Safe Use Principles: Principle 3 Food Chain Safety

- Use only FDA-approved products
- Strictly observe label directions
 - Dose, route, cautions, warnings, withdrawal times, etc.
- Record all products administered
 - ✓ Animal ID
 - ✓ Date treated
 - ✓ Product used
 - ✓ Dosage
 - ✓ Route and location of administration
 - ✓ First marketing date to meet withdrawal requirements (Preslaughter withdrawal time for Micotil is 42 days)



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Module 2: Important Safety Information Overview

Safe Use Principles: Principle 4 Environmental Safety

- Post-emergency procedures and contacts Call:
 - SafetyCall International at 1-800-722-0987 or
 - Elanco Animal Health at 1-800-428-4441
- Remove potential hazards in work area
- Repair or remove broken equipment
- Properly dispose of used needles and bottles
- Recycle all injectable syringes and bottle packaging

	MICOTIL DO	SAGE CHART		SAFE
	Animal		MICOTIL DOSAGE	
sations: Muctil is indicated for the treatment of bourse respiratory disease (BRD) associated with nheimic haemaytica, Pasteurelia multicula and Hatophilus sommi, and for the control of respiratory so in cottle at high risk of developing BRD associated with <i>M. haemaghta</i> .	Animal weight (lbs.)	1.5 mL/100 lbs. body weight	2.25 mL/100 lbs. body weight	3 mL/100 lbs. body weight
age and administration: Inject suboutaneously only. In cattle, administer a single suboutaneous of 10 to 20 mg/kg of body weight (1 to 2 mL/30 kg or 1.8 to 3 mL per 100 lbs.). Do not inject more	200	3.00	4.50	6.00
10 mL per injection site. Idue warning: Micotii has a withdrawal time of 42 days, regardless of dase.	300	4.50	6,75	9.00
	400	6.00	9.00	12.00
ROPER MICOTIL HANDLING PROCEDURES	500	7.60	11.25	15.00
tore Micotil in a secure location to prevent the risk of misuse. - Recommended storage includes a lockable cabinet or container or a secure storage	600	9.00	13.50	18.00
room, depending on the amount of product in inventory. rep full or empty Micotli bottles, used syringes and needles out of the reach of children and	700	10.50	15.75	21.00
general public. id, understand and follow all label use directions.	800	12.00	18.00	24.00
suboutaneous use. Do not use in automatically powered syringes. a 1/2° to 5/8° 18- or 16-gauge needle.	900	13.50	20.25	27.00
p a protective cover on needles until ready to use.	1,000	15.00	22.50	30.00
r carry loaded synnges in pockets or by hand. h hands thoroughly with soap and water after handling.	-			
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Module 2: Important Safety Information Overview

Safe Use Principles: Principle 4 Environmental Safety

Possible Effects of Accidental Human Injection

- Human injections of Micotil have been associated with fatalities
- Clinical signs of human exposure include off-taste in the mouth, nausea, headache, dizziness, rapid heart rate, chest pain, anxiety or lightheadedness
- Local reactions such as injection site pain, bleeding, swelling or inflammation have been reported

Human-Exposure Actions

- If accidental exposure occurs seek immediate medical attention:
 - REACH for and apply ice pack
 - REFERENCE product label "Note To The Physician" and/or product insert and provide to doctor
- REMEMBER to contact SafetyCall at 1-800-722-0987 or Elanco Animal Health at 1-800-428-4441 (select product support)



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Module 2: Important Safety Information Overview

As you can see, safety precautions must be taken across all fronts. This ensures that all parties are kept healthy and safe.

Our next module will go on to cover the Safe Handling and Administration of Micotil[®].





TM

Micotil[®] (tilmicosin injection)

Safety Course

Module 3: Safe Handling and Administration

This module will cover the handling and administering of Micotil[®] to ensure the best safety protocols are taken. When administration recommendations are taken into account, this allows for a reduced risk of injury to both the animal and the human.

This module will explain:

- 1. Administration Recommendations
- 2. Usage Guidelines
- 3. Micotil Shroud and Sekurus Syringe
- 4. Administration Technique
- 5. Micotil[®] How to Shroud Video



Module 3: Safe Handling and Administration

Administration Recommendations

- Always keep needles properly covered until ready to use
- Carry syringe in proper manner to ensure safe handling
- Handle loaded syringes with care
- Never carry loaded syringes in coat or pockets
- If syringe is broken or damaged in any way, discontinue use immediately and replace
- Exercise caution and care when removing needle from syringe so as not to pierce skin with needle
- Elanco recommends that Micotil[®] be administered only by those individuals who have received safe handling and use training from their veterinarian or an Elanco representative
- Producers should consider designating one trained and responsible individual on their animal health team to administer Micotil[®]
- It is recommended that Micotil[®] only be used in situations where animals can be properly restrained
 - Producers should consult their veterinarian for specific restraint recommendations
- Generally, proper animal restraint would include restraint via a squeeze chute, head gate, headlock or similar device



Right for cattle. Right by you.



Module 3: Safe Handling and Administration

Usage Guidelines

- Administer only with a tube-fed safety syringes. Do not use in automatically powered syringes, single-use syringes, or other delivery devices not specified in the labeling.
- Inject subcutaneously in cattle and sheep only. Do not administer intravenously; intravenous injection will be fatal
 - In cattle, administer a single subcutaneous dose of 10 to 20 mg/kg of body weight (1.5 to 3 mL/100 lbs). Do not use in female dairy cattle 20 months of age or older. Use of tilmicosin in this class of cattle may cause milk residues. Do not use in lactating ewes if the milk is intended for human consumption.
 - In sheep greater than 15 kg (30 lb), administer a single subcutaneous dose of 10 mg/kg of body weight (1.5 mL/100 lbs). Do not use in lambs
 less than 15kg (30lb) body weight.
 - Do not inject more than 10 mL per injection site
- Animals intended for human consumption must not be slaughtered within 42 days of the last treatment
- If no improvement is noted within 48 hours, the diagnosis should be re-evaluated.
- Injection of tilmicosin has been shown to be fatal in swine and non-human primates. Death following exposure to tilmicosin injection has been reported to FDA/CVM in goats, rabbits, pheasants, pigs, dogs, deer, cats, alpacas, and horses.
- Effects of tilmicosin on bovine and ovine reproduction, pregnancy and lactation have not been determined

Right for cattle. Right by you.



Module 3: Safe Handling and Administration

Micotil[®] Bottle Shroud and SekurusTM Safety Injector

- Micotil[®] is supplied with a protective, ergonomic case called a shroud. For your safety, the shroud cannot be removed.
- The shroud must be activated and connected to the appropriate quick connect draw-off tubing prior to use.
- The shroud offers added protection from breakage during the handling of bottles.
- Micotil[®] should only be administered with the Sekurus[™] Safety Injector.
 - To obtain a Sekurus[™] Safety Injector for the administration of Micotil[®], please contact your Elanco Sales Representative or call 1-800-428-4441.



Right for cattle. Right by you.



Module 3: Safe Handling and Administration

Micotil® Bottle Shroud

- All product information contained in accordion style label on Micotil[®] packaging
- Easy to read & understand format
- Discusses safety to the worker
- Contains:
 - Important safety information
 - Shroud activation instructions
 - What to do in case of accidental self-injection
 - Who to call if you have questions



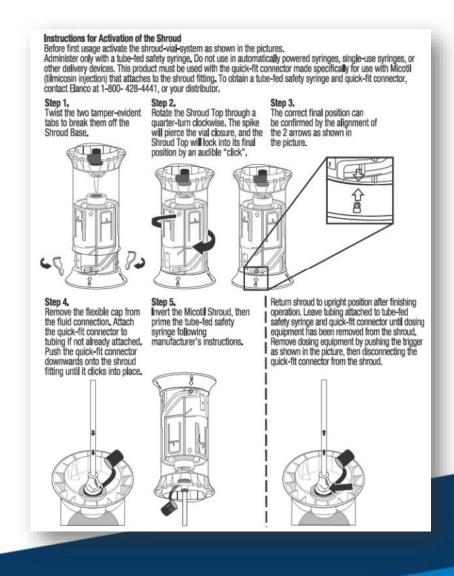
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Module 3: Safe Handling and Administration

Micotil® Bottle Shroud- Use Instructions

- Gather materials to administer Micotil[®]. Materials needed include the 250 ml product bottle encased in the protective shroud, a tube-fed safety syringe and an appropriately sized needle for subcutaneous injection. Micotil[®] should only be administered with the quick-fit connector made specifically for its use along with the tube-fed safety syringe.
- 2. Locate the two tamper-evident tabs at the base of the shroud. Twist and break them off.
- 3. Rotate the shroud top a quarter-turn clockwise. The top will lower and the spike will pierce the vial closure. An audible click should be heard as the shroud top locks into its final position.
- 4. Remove the flexible cap and push the quick-fit connector downwards onto the shroud fitting until it clicks into place. At this point, the tube should already be connected to your safety syringe.
- 5. Invert the shroud to prime the safety syringe.



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Module 3: Safe Handling and Administration

SekurusTM Safety Injector

- Elanco recommends use of the Sekurus[™] Safety Injector, which features a 2-stage activation process to reduce risk of accidental injection
- Patented self-tenting technology
 - Makes sure operator's hand is not close to injection site
- Two-stage activation
 - To activate, pull the trigger & then push the syringe cone against the animal
 - Both must be performed in order to expose the needle & insert it into the animal
 - Depress the syringe handle to inject Micotil[®] into the animal



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Module 3: Safe Handling and Administration

SekurusTM Safety Injector- Use Instructions

- Prime the safety syringe
- Set the dose adjuster to the maximum setting.
- Grasp the safety syringe and depress the trigger with the forefinger
- Using your spare hand, pull the needle guard back and hold in this retracted position for the remainder of the priming procedure.
- Squeeze and release the safety syringe handles repeatedly to draw product through the tube. Once the product enters the barrel, carefully squeeze handles to expel remaining air. Tilt the syringe upward to help get as much air out of the barrel as possible. Use caution to avoid spillage of product.
- Allow the needle guard to return forward and release trigger.
- Set the dose adjuster to the required setting.



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Module 3: Safe Handling and Administration

SekurusTM Safety Injector- Use Instructions cont.

- To attach the needle, remove the needle guard by grasping the safety syringe and press needle guard release tab with your thumb. Remove the guard with your other hand.
 - Keep your thumb and fingers on the metal slide so they are well clear of the trigger.
 - Remove the cap from the needle cover (do not remove the cover from the needle until it is attached to the syringe.)
 - Use the needle cover to properly fit the appropriately sized needle (proper needle length should be ½" to 5/8") onto the tip and rotate clockwise to engage threads. Avoid over tightening the needle.
 - To remove the needle, place the needle cover over the needle and twist in the opposite direction (counterclockwise)
 - If needle cannot be removed using needle cover, use needle-nosed pliers to remove. Never remove by hand.
 - Replace the needle guard by aligning it with the metal slide and push so that the release tab of the needle guard clips into place.



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Module 3: Safe Handling and Administration

SekurusTM Safety Injector- Use Instructions cont.

- Injecting with the gun
 - Place the cone of the syringe onto the neck area at a downward angle
 - Simultaneously push cone of the syringe into neck while depressing the syringe trigger to expose the needle & penetrate the skin
 - Once the needle has penetrated the skin, shift the hand with syringe toward the animal, pulling the skin away from the deeper muscle tissue
 - Depress the handle to complete the injection
- Remember
 - DO NOT use the opposite hand to tent the skin
 - Use only one hand (the other hand should be kept away from the injection area)
 - Ensure proper disposal of needles, syringes and used bottles
 - Discuss any concerns with your veterinarian



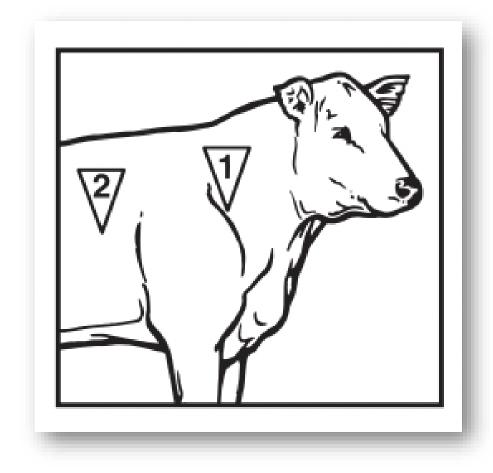
Right for cattle. Right by you.



Module 3: Safe Handling and Administration

Administration Technique

- Select a 1/2" to 5/8", 18- to 16- gauge needle
- With a single hand on the syringe, insert the needle subcutaneously, at a top-down angle, while avoiding penetration of underlying muscle
- Injection under the skin in the neck is suggested. If not accessible, inject under the skin behind the shoulders and over the ribs
- Administer a single subcutaneous dose of 10 to 20 mg/kg of body weight (1 to 2 mL/30 kg or 1.5 to 3 mL per 100 lbs)



Right for cattle. Right by you.



Module 3: Safe Handling and Administration

Micotil® How to Shroud Video

For a video demonstration of how to use the Micotil[®] Bottle Shroud and Sekurus Device please visit the link below or click play on the video embedded in this slide.

https://www.youtube.com/watch?v=jbKsKgCsI44



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Module 3: Safe Handling & Administration

By adhering to these usage and administration guidelines, you can be confident in your safe use of Micotil[®].

Our next module will go on to cover the Micotil[®] Storage Recommendations and a final review of the Micotil[®] Label Indications and Micotil[®] Boxed Warning.





Micotil[®] (tilmicosin injection)

Safety Course

Module 4: Micotil® Storage Recommendations, Review of Micotil® Label Indications and Micotil® Boxed Warning

Once you finish using Micotil[®], storing it in a safe place is just as important. By doing this, you ensure that only those allowed to administer Micotil[®] can access it, and that it will stay out of reach of the general public. This module will cover the storage of Micotil[®] to prevent misuse and perform a final review of the label indications and boxed warning.

- 1. Micotil[®] Storage Recommendations
- 2. Micotil[®] Label Indications
- 3. Micotil[®] Boxed Warning



Module 4: Micotil® Storage Recommendations, Review of Micotil® Label Indications and Micotil® Boxed Warning

Storage Recommendations

- Storage of Micotil[®] in a secure location to prevent misuse is recommended. The risk of misuse by humans should be considered when storing, administering and disposing of Micotil[®].
- Recommended storage method is in a locked cabinet, storage room or a similar secure container, depending on inventory
- Keep full or empty Micotil[®] bottles, used syringes and needles out of the reach of children and the general public.
- Store at or below 86° (30°C). Protect from direct sunlight. Use within 84 days of first puncture. Store upright between product dispensing. Disconnect and clean dosing equipment for storing as per manufacturer's instructions



Right for cattle. Right by you.



Micotil® 300 (tilmicosin injection) Safety Course

Module 4: Micotil® Storage Recommendations, Review of Micotil[®] Label Indications and Micotil[®] Boxed Warning





250 mL

(tilmicosin injection) 300 mg tilmicosin, USP as tilmicosin phosphate per ml

For Subcutaneous Use in Cattle and Sheep Unity Solo Para Uso Subcutáneo en Ganado Vacuno y Ovin Approved by FDA under NADA # 140-929

Idminister only with a tube-fed safety seringe. Do not use in automatically powered seringes, single-use syringes, or other delivery devices, Contact Blanco at 1-800-428-4441, or your distributor, for a tube-fed safety syringe for use with this product.

Administrar únicamente con una jeringa de seguridad con tubo. No administrar con jeringas acciona urtomáticamente, jeringas de un solo uso u otros dispositivos de aplicación. Contactar a Banco al automáticamente, jeringas de un solo uso u obros dispositivos de aplicación. Contacuar a suanco al 1-800-428-4441, o al distribuidor, para obtener una jeringa de seguridad con tubo para usar con este producto.

Four-resolution in the methods para downer was pring or separation to make para data control and para data The advances for a presence of the set of

or overkeprog servi associates with maximum anemotion. Mixed must be availed with the quick-for connector make specificially for its use. Contact Banco or your distributor for this equipment, fixed product labeling, including Safe Handling Practices, before use. MixedI debe usarus con un connector de sjuste nipido hecho especificamente para su uso. Contacte a Eanco o a distributor para observe estre equip. Las ficial ficencia, including safe Nacicia de Nannejo Seguro, antes

ion: Follow instructions for activation of the shroud before first usage Design and Amministrations: Foldow instructions for administer of the almost before that usage, bights Subschmannen, in cattles, administer of poly, See Safe Handing Practices, contraintications, and Warnings prior to use, in cattle, administer a single abcotments does of 10 to 20 mylog of body weight (1 to 2*n*, 20 kg or 1.5 to 3 mi, per 100 bids, in sheep greater than 15 kg, administer a single subschmans, does of 10 mylog of body weight (1 m, 20 kg, or 1.5 mg, per 100 bids, Do not inpact more than the. no improvement is noted within 48-hours, the diagnosis should be reevaluated For cattle and sheep, injection under the skin in the neck is suggested. If not accessible, inject under the skin behind the shoulders and over the ribs.

Note: Swelling at the subcutaneous site of injection may be observed Net: Selling a file indicational site of injector may tectorismi. CONTINUER/CENTION: For origin an instrumediate parenter primage, site-place as tyringes, or other differing the second site of the second site between site of the second si

Namings: (NAMN NAVANDES: Ret for human case, legicition of this drug in humans has been associated with facilities, (doep out of each of children, Administer only with a table-bet-assilty springs, to not use in automaticable supervention springs, and an each of the same facilities of the same state of the same state and highers, in case of human facilities, costant a physical mendicable and against and accident sub-discident all water springs, or diministry and state of the same state of the same state of the same state of the same facilities of the same state of -800-722-0967 or 1-800-428-4441. Avoid contact with skin, eyes, or mucous membranes.

To WAY 2004 in the second seco ted the negative instropy of Micotil in dogs, Epinephrine potentiated lethality of Micotil in pigs. This antibiotic persists in tissues for several days, DVERTENCIAS PARA EL SER HUMANO: Este producto no es para uso humano. La inyección de este

proventiones remova can human se ha accordo con munice, Mantenga hum del statume, La elifección de tela medicamento a la verse human se ha accordo con munice, Mantenga hum del del statume de los miños, fúblice únicamento a las accordos humans se ha accordos. Procedo con entre acutale para entre la automáticamente, principas de accidentes Es exesto de sejección en seree humanos, consulte humadistatumente a um médica y artíleus holdos accidentes Es exesto de sejección en seree humanos, consulte humadistatumente a um médica y artíleus holdos ia compresa fria en el llugar de lla inyección, evitando el contacto directo con la piel. Los números de teléfono ira emergencias médicas son 1-800-722-0967 o 1-800-428-4441, Evite el contacto con la piel, los ojos o las nembranas mucosas. NOTA PARA FL MEDICO: FL sistema cardiovascular es el blanco de la toxicidad y debe viollarse estrechamente.

Indition of the Antoneous of a secretistic dariation and the second seco compensó parcialmente los efectos inotrópicos negativos inducidos por Micotil en perros. Los antagonistas L como proprandioL exacerbaron el inotropismo negativo de Micotil en los perros. La epinefrina idad de Micotil en cerdos. Este antibiótico persiste en los telidos por varios días.

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Residue Warnings: Animals intended for human consumption must not be slaughtered within 42 days of the last treatment. Not for use in lactating dairy cattle 20 months of age or older. Use of Ullinoisin in this class of cattle may cause milk residues. Not for use in lactating even producing milk for human consumption. Precautions: The effects of tilmicosin on bovine and ovine reconductive performance, preprinting and rim loss of edible tissue at staughts

tions: The following :

n sheep: dysonea and death. For additional information about reporting adverse drug experiences for animal drugs, contact FDA at 1-888-FDA-VETS or http://www.fda.gov/reportanimalae

1-488-F3-M425 or thtp://www.tdia.gov/mg/tartinualine/ ficialina Phanesdarger, a single subchaneous and selected of Mortell Himicasin isjection at 10 mg/kg of boly weight down is ratio maked in pare & Himicasin insiste within on the acti and directed blocks. (Dir. 2009) and the single subchaneous lange constrained and the single subchaneous blocks of blocks are apprecised blocks of the blocks of the single subchaneous Himicasin High Select Selected and the single subchaneous here and the single subchaneous Himitian Himitian Selected and the single subchaneous Himitian Himitian Himitian Himitian Himitian Selected and the single subchaneous Himitian Himitian Himitian Himitian Himitian Selected and Himitian Himitian Himitian Himitian Himitian Himitian Himitian Selected Himitian Himitia

Microbiology: Tilmicosin has an in vibro antibacterial spectrum that is predominantly Gram-positive with activity against certain Gram-negative microorganisms, In vitro activity against several Mycoplasma species as also been observed Effectiveness: In a multi-location field study, 1508 calves with naturally occurring BRD were treated with

Miccol. Responses to treatment were compared to saline-treated controls. A cure was defined as a call with normal attitude and activity, normal respiration, and a rectal temperature of <104°F on Day 13. The cure rate was significantly higher (P=UCOd) in Miccolt-meated calves (SCI-hS) compared to saline-treated calves (SCI-b). (29,2%). During the treatment phase of the study, there were 10 BRD-related deaths in the Micotil-treated calves compared to 47 in the saline-treated calves.

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pol mayar, In an additional safety study, subcutaneous does of 150 mg/kg body weight injected at 72-hour intervals resulted in death of two of the four treated animals. Gerera was marked at the site of injection. Minimal myocardial necessis was the only bision observed at necessary. Deaths of cattle have been observed with a single intravenous does of 5 mg/kg of body weight.

In steep, single subcutaneous injections of 10 mg/kg body weight dose did not cause any deaths and no adverse effects of tilmicosin were observed on blood pressure, heart rate, or respiratory rate. Toxicology: The heart is the target of toxicity in laboratory and domestic animals given Motili (Illinicosin locicity) of the operating of the target of toxicity in laboratory and domestic animals given Motili (Illinicosin decreased contractility (negative indropy), Cardiovascular toxicity may be due to calcium channel blockade,

Upon subcutaneous injection, the acute median lethal dose of tilmicosin in mice is 97 mg/kg, and in rats is 185 mg/kg of body weight. Given onally, the median lethal dose is 800 mg/kg and 2250 mg/kg body weight in fasted and nonfastel rats, respectively. No commund-related lesions were found at necross

No componencies essors were trans at mecrops. In dog, intervence adation rifeth Month-Interact bachycerfal and negative indrogy, restoring affertal pulse pressur. Dobtamine partially draft the negative indrogs effects indicade by Montil in dog. I-b attrenegic adaptosits, acta is a programalik, escandarbia the negative indrogs (Montil in dog. I-b attrenegic adaptosits), acta is programalik, escandarbia the negative indrogs (Montil in dog. In morkeys, a single intramucular dose of 10 mg/lg dody weight caused to estips of backby. As single dose of 20 mg/lg dow weight caused vorating and 31 mg/lg dody weight caused to estips of the ody. nonkey tested.

In swine intramuscular injection of 10 molkn body weight caused increased respiration emesis, and a convulsion, 20 mg/kg body weight resulted in mortality in 3 of 4 pigs, and 30 mg/kg body weight caused the death of all 4 pigs tested, Injection of 4.5 and 5.6 mg/kg body weight intravencusty followed by epinephrine, 1mL (1:1000) intravenously 2 to 6 times, resulted in death of all pigs injected, Pigs given 4.5 mg/kg and 5.6 mg/kg body weight intravenously with no epinephrine all survived. These results success intravenus epinephrine may be contraindicated

Results of genetic toxicology studies were all negative. Results of terratology and reproduction studies in rat were negative. The no effect level in dogs after daily oral doses for up to one year is 4 mg/kg of body weight. Storage Conditions: Store at or below 86°F (30°C), Protect from direct sunlight, Use within 84 days of first puncture. Store upright between product dispensing. Disconnect and clean dosing equipment for storing as

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manufacerer s'inseructions, servar a 85 °F (30 °C), Proteger de la luz solar directa. Usar dentro de los 84 días de la primera punción uardar en posición vertical entre cada suministro del producto. Desconectar y limpiar el dispositivo de isificación para el almacenamiento según las instrucciones del fabricante. to recort adverse effects, access medical information, or obtain additional product information. rall 1-900-428-4441

How Supplied: Micotil (tilmicosin injection) is supplied in 250 mil. multi-dose amber glass bottles in a non-removable polymer protector. Manufactured for: Banco US, Inc., Greenfield, IN 46140, USA

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• Non-Institution Structure, Net Tours and Annual Ann



a purvices and rule rulence setting of the trainer of contract of the trainer principa de seguridad. Se debe variar retirar uma applia usada con los debisos. Desochar las applias usadas en un contenedor apropiado para la eleminación de objetos purzantes. No lenza en cosos los contenencios de objetos purzantes y on melles de debise en dichos conten la forma nunca applias sueltas en los culose de besura domestos o públicos.

cotil, Elanco y el logo de la barra diagonal son marcas de Elanco o sus afiliada:

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Micotil[®] 300 (tilmicosin injection) Label Indications

- Micotil[®] is indicated for the treatment of bovine respiratory disease (BRD) associated with Mannheimia haemolytica, Pasteurella multocida and Histophilus somni and for the treatment of ovine respiratory disease (ORD) associated with Mannheimia haemolytica
- Micotil[®] is indicated for the control of respiratory disease in cattle at high risk of developing BRD associated with Mannheimia haemolytica

Right for cattle. Right by you.



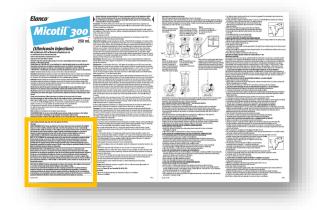
Module 4: Micotil® Storage Recommendations, Review of Micotil® Label Indications and Micotil® Boxed Warning

Before using this product, it is important to read the entire product insert, including the boxed human warning.

CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian.

HUMAN WARNINGS: Not for human use. Injection of this drug in humans has been associated with fatalities. Keep out of reach of children. Administer only with a tube-fed safety syringe. Do not use in automatically powered syringes, single-use syringes or other delivery devices. Exercise extreme caution to avoid accidental self-injection. In case of human injection, consult a physician immediately and apply ice or cold pack to injection site while avoiding direct contact with the skin. Emergency medical telephone numbers are 1-800-722-0987 or 1-800-428-4441. Avoid contact with skin, eyes or mucous membranes.

Note To The Physician: The cardiovascular system is the target of toxicity and should be monitored closely. Cardiovascular toxicity may be due to calcium channel blockade. In dogs, administration of intravenous calcium offset Micotil-induced tachycardia and negative inotropy (decreased contractility). Dobutamine partially offset the negative inotropic effects induced by Micotil in dogs. ß-adrenergic antagonists, such as propranolol, exacerbated the negative inotropy of Micotil in dogs. Epinephrine potentiated lethality of Micotil in pigs. This antibiotic persists in tissues for several days.



Right for cattle. Right by you.



Module 4: Micotil® Storage Recommendations, Review of Micotil® Label Indications and Micotil® Boxed Warning

As you can see, storage is just as important as every other step we have discussed today. It is also important to understand the product label to ensure proper safety and administration for users and animals.





Thank you for completing the Micotil[®] (tilmicosin injection) Safety Course. We hope that this educational course has provided lifelong safety information to you, and that you will follow these protocols while administering Micotil[®] and other injectables for maximum safety.

Please download the Certification Signature Page from the Micotil Safety Training site, sign, and send completed form to <u>Micotil_Certification@elanco.com</u>.

For questions regarding Micotil[®] or this Safety Course, please contact your Elanco Sales Representative or call 800-428-4441.

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PM-US-23-0846(3)

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