

TiaGard™ 12.5% (Tiamulin hydrogen fumarate)

Liquid Concentrate
12.5% Tiamulin hydrogen fumarate

Approved by FDA under ANADA # 200-717
One Liter (1.057 Quarts) (33.8 fl. oz; 1000 mL)

Directions for using TiaGard 12.5%

In medicated proportioners:

One liter of TiaGard 12.5% Liquid Concentrate mixed with water to make 4.3 gallons of stock solution and this stock solution metered at one fluid ounce per gallon will provide 227 mg of tiamulin hydrogen fumarate per gallon to 550 gallons of drinking water for treatment of swine dysentery. Three liters of TiaGard 12.5% Liquid Concentrate mixed with water to make 4.3 gallons of stock solution and this stock solution metered at one fluid ounce per gallon will provide 681 mg tiamulin hydrogen fumarate per gallon to a total of 550 gallons of drinking water for treatment of swine pneumonia.

In barrels or tanks:

One liter (1000 mL) of TiaGard 12.5% Liquid Concentrate will medicate 550 gallons of drinking water at 227 mg per gallon for treatment of swine dysentery or 183 gallons at 681 mg per gallon for treatment of swine pneumonia.

Measure TiaGard 12.5% Liquid Concentrate carefully, pour into the proper amount of water and thoroughly mix. The concentration of tiamulin hydrogen fumarate in the stock solution and in the drinking water delivered must be adjusted to compensate for variation in water consumption by pigs due to body weight, environmental and other factors. It is important that the pigs receive the proper drug dose of 3.5mg of tiamulin hydrogen fumarate per pound of body weight daily for 5 consecutive days for treatment of swine dysentery or a dose of 10.5mg per pound body weight daily for 5 consecutive days for treatment of swine pneumonia.

Attention:

If no response to treatment is obtained within 5 days re-establish the diagnosis. Failure of response may be related to the presence of non-susceptible organisms of other complicating disease conditions. Because of the tendency for the disease to recur on premises with a history of swine dysentery or with swine pneumonia, a control program should be implemented after treatment. Drugs are not substitutes for proper sanitary measures or good management, but should be used in conjunction with such practices.

How supplied:

Container Size	Active Ingredients
1 Liter bottles (33.8 fl oz; 1000 mL)	12.5% (125.0 g) Tiamulin hydrogen fumarate

Protect from direct sunlight. Store upright at controlled temperature, 59°–77°F (15°–25°C). Use stock solutions within 24 hours after preparation. Do not store stock or diluted solutions in galvanized metal containers.

Observe expiration date.

To report suspected adverse drug events, for technical assistance or to obtain a copy of the Safety Data Sheet, contact Aurora Pharmaceutical at 1-888-215-1256 or <http://www.aurorapharmaceutical.com>. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or <http://www.fda.gov/reporthanmalae>.

Description:

TiaGard 12.5% (tiamulin hydrogen fumarate) Liquid Concentrate is a solution containing 12.5% tiamulin hydrogen fumarate (w/v) in an aqueous solution. The active ingredient, tiamulin hydrogen fumarate, chemically is 14-desoxy-14-[(2-diethylaminoethyl) mercaptoacetoxy] mutilin hydrogen fumarate, a semi-synthetic diterpene antibiotic. TiaGard 12.5% Liquid Concentrate is for use only in preparing medicated drinking water for swine.

Actions:

Tiamulin is active against *Brachyspira* (formerly *Serpulina* or *Treponema*) *hyodysenteriae* and *Actinobacillus pleuropneumoniae*. It is readily absorbed from the gut and can be found in the blood within 30 minutes after dosing.

Indications: TiaGard 12.5% (tiamulin hydrogen fumarate), when administered in the drinking water for five consecutive days, is an effective antibiotic for the treatment of swine dysentery associated with *Brachyspira* (formerly *Serpulina* or *Treponema*) *hyodysenteriae* susceptible to tiamulin at a dose level of 3.5 mg tiamulin hydrogen fumarate per pound of body weight daily and for treatment of swine pneumonia due to *Actinobacillus pleuropneumoniae* susceptible to tiamulin when given at 10.5 mg tiamulin hydrogen fumarate per pound of body weight daily.

Contraindications: Swine being treated with TiaGard 12.5% (tiamulin hydrogen fumarate) should not have access to feeds containing polyether ionophores (e.g., monensin, lasalocid, narasin, salinomycin and semduramicin) as adverse reactions may occur.

Warning: Keep out of reach of children. Avoid contact with skin. Direct contact with skin or mucous membranes may cause irritation.

Residue Warnings: Withdraw medicated water 3 days before slaughter after treatment at 3.5 mg per pound body weight and 7 days before slaughter after treatment at 10.5 mg per pound body weight.

Caution: For use in drinking water of swine only — Not for use in humans.

Prepare fresh medicated water daily. Use as the only source of drinking water for 5 days. The effects of tiamulin on swine reproductive performance, pregnancy and lactation have not been determined.

Adverse Reactions:

Overdoses of tiamulin hydrogen fumarate have sometimes produced transitory salivation, vomiting and an apparent calming effect on the pig. If signs of toxicity occur, discontinue use of medicated water and replace with clean, fresh water. In rare cases, redness of the skin primarily over the ham and underline has been observed during medication. If these signs appear, discontinue use of this drug. Provide ample clean drinking water. Thoroughly rinse (hose down) the housing to remove urine and feces from animal contact surfaces or move the animals to clean pens. If the condition persists, consult your veterinarian.

Studies to evaluate the safety of the water-soluble form of tiamulin in breeding swine have not been done.

Use Directions:

The concentration of tiamulin hydrogen fumarate in the drinking water must be adjusted to compensate for variation in water consumption due to weight or size of the pig, environmental temperature and other factors. It is important that pigs receive the proper drug dose, 3.5 mg tiamulin hydrogen fumarate per pound for swine dysentery or 10.5 mg tiamulin hydrogen fumarate per pound for swine pneumonia, each day for 5 consecutive days.

Directions for preparing TiaGard 12.5% medicated solutions

Determine the amount of TiaGard 12.5% Liquid Concentrate needed to medicate the desired volume of drinking water at the proper concentration. Carefully measure out this amount, add it to the water and stir to thoroughly mix.

Number of pigs this bottle will treat for ONE day based on water consumption per pig

	One Liter	Swine Dysentery	Swine Pneumonia
Net tiamulin hydrogen fumarate content:	125,000 mg		
Diseases to be treated:			
Daily tiamulin hydrogen fumarate required per pound body weight:	3.5 mg	3.5 mg	10.5 mg
Required treatment duration:	5 days	5 days	5 days
Pig Wt, lb	Water intake, gal	# of pigs	# of pigs
20	0.3 - 0.5	1,786	595
45	0.4 - 1.1	794	265
75	0.7 - 1.5	476	159
125	1.0 - 2.0	286	95
180	1.2 - 3.0	198	66
Suggested final dilution of:	1 bottle (1 Liter) 3 bottles (3 Liters) 1/2 bottle (0.5 Liters)	550 gal 1650 gal 275 gal	183 gal 550 gal 92 gal
Tiamulin hydrogen fumarate concentration per gallon at suggested final dilution*	227 mg (60 ppm)	681 gal (180 ppm)	

1. Prepare fresh medicated drinking water every day for the 5 day treatment period.
2. Water medicated with TiaGard 12.5% should be the only source of drinking water during the treatment period.
- *3. Increase or decrease dilution rate as required to obtain proper daily drug dose.



br000044 03/2022



TiaGard™ 12.5% (tiamulin hydrogen fumarate)



VETERINARY STRENGTH, WHOLE-HERD TREATMENT OF SWINE DYSENTERY AND SWINE PNEUMONIA

AURORA PHARMACEUTICAL'S TIAGARD™ 12.5% LIQUID CONCENTRATE is specifically designed by veterinarians to effectively and quickly stop swine dysentery and pneumonia. **TiaGard™ 12.5% Liquid Concentrate** contains 12.5% tiamulin hydrogen fumarate and is a proven, cost-effective treatment for swine dysentery associated with *Brachyspira hyodysenteriae* and swine pneumonia due to *Actinobacillus pleuropneumoniae*.

EASY TO DOSE AND ADMINISTER VIA THE DRINKING WATER

Five-day dosing in drinking water with no age restrictions enables quick, effective, whole-herd treatment against both dysentery and swine pneumonia.



Administer **TiaGard™ Liquid Concentrate** in the drinking water for 5 consecutive days for the treatment of swine dysentery at a dosage rate of 3.5 mg per pound of body weight. TiaGard™ Liquid Concentrate is labeled for the treatment of swine pneumonia due to *Actinobacillus pleuropneumoniae* when given at 10.5 mg per pound of body weight.

www.aurorapharmaceutical.com

TiaGard is a Trademark of Aurora Pharmaceutical, Inc.



TiaGard™
12.5%
(tiamulin hydrogen fumarate)



TIAGARD™ 12.5% DOSING CHART

TIAGARD™ 12.5% LIQUID CONCENTRATE PRODUCT BENEFITS

- Equivalent active ingredient to pioneer Denagard® (tiamulin hydrogen fumarate) at a fraction of the cost per head
- Active against *Brachyspira* (formerly *Serpulina* or *Treponema*) *hyodysenteriae* and *Actinobacillus pleuropneumoniae*
- Approved for use in medicated proportioners . . . no needles required, meets PQA standards
- High potency, low resistance tiamulin hydrogen fumarate is widely considered to be the most effective antimicrobial against swine dysentery caused by *Brachyspira hyodysenteriae*^{1,2}
- Economic impact varies based on the severity and prevalence of the disease within an operation. The combination of treatment costs and death loss can cost producers thousands of dollars a year. A significant portion of that loss also comes from low average daily gain. It is estimated a producer loses between \$11 and \$17 for every infected animal³
- One liter (1,000 mL) of TiaGard Liquid Concentrate will medicate 550 gallons of drinking water at 227 mg per gallon for treatment of swine dysentery or 183 gallons at 681 mg per gallon for treatment of swine pneumonia

- Five-day dosing in drinking water with no age restrictions enables quick, effective, whole-herd treatment against both dysentery and swine pneumonia
- Readily absorbed from the gut and can be found in the blood within 30 minutes after dosing
- Short withdrawal time after use (3 days before slaughter after treatment at 3.5 mg per pound and 7 days before slaughter following treatment at 10.5 mg per pound body weight)
- Manufactured and packaged in the USA . . . no product shortages or added costs due to international production, shipping, inspection and repackaging

TIAGARD™ 12.5% AVAILABILITY

1L Bottle - Reorder No: 22001

PURCHASING TIAGARD™

Contact your local Aurora Pharmaceutical, Inc. sales representative or call customer service at 1-888-215-1256 for information on TiaGard™ or to answer questions about its use.

PIG WEIGHT	WATER INTAKE	SWINE DYSENTERY	SWINE PNEUMONIA
		# OF PIGS	# OF PIGS
20 LBS.	0.3-0.5 GAL.	1,786	595
45 LBS.	0.4-1.1 GAL.	794	265
75 LBS.	0.7-1.5 GAL.	476	159
125 LBS.	1.0-2.0 GAL.	286	95
180 LBS.	1.2-3.0 GAL.	198	66
SUGGESTED FINAL DILUTION		SWINE DYSENTERY	SWINE PNEUMONIA
1/2 BOTTLE (0.5L)		275 GAL.	92 GAL.
1 BOTTLE (1L)		550 GAL.	183 GAL.
3 BOTTLES (3L)		1,650 GAL.	550 GAL.

Caution: Do not use undiluted. Do not use in animals other than swine. The effects of tiamulin on swine reproductive performance, pregnancy and lactation have not been determined.

Contraindications: Swine being treated with TiaGard™ 12.5% (tiamulin) should not have access to feeds containing polyether ionophores (e.g., lasalocid, monensin, salinomycin and semduramycin) as adverse reactions may occur.

The label contains complete use information including cautions, warnings and withdrawal times. Always read and follow the label and use directions.