

## **ZYDACLIN- clindamycin hydrochloride liquid MWI**

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**ZydaClin™**

(clindamycin hydrochloride oral solution)

Approved for use in dogs and cats.

**Equivalent to 25 mg per mL clindamycin**

### **CAUTION:**

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

### **DESCRIPTION**

Clindamycin Hydrochloride Oral Drops (clindamycin hydrochloride oral solution) contains clindamycin hydrochloride which is the hydrated salt of clindamycin. Clindamycin is a semisynthetic antibiotic produced by a 7(S)-chlorosubstitution of the 7(R)-hydroxyl group of a naturally produced antibiotic produced by *Streptomyces lincolnensis* var. *lincolnensis*.

Clindamycin Hydrochloride Oral Drops (For Use in Dogs and Cats) is a palatable formulation intended for oral administration. Each mL of Clindamycin Hydrochloride Oral Drops contains clindamycin hydrochloride equivalent to 25 mg clindamycin; and ethyl alcohol, 8.64%.

### **INDICATIONS**

Clindamycin Hydrochloride Oral Drops (for use in dogs and cats) is indicated for the treatment of infections caused by susceptible strains of the designated microorganisms in the specific conditions listed below:

#### **DOGS:**

**Skin infections (wounds and abscesses)** due to coagulase positive staphylococci (*Staphylococcus aureus* or *Staphylococcus intermedius*). **Deep wounds and abscesses** due to *Bacteroides fragilis*, *Prevotella melaninogenicus*, *Fusobacterium necrophorum* and *Clostridium perfringens*. **Dental infections** due to *Staphylococcus aureus*, *Bacteroides fragilis*, *Prevotella melaninogenicus*, *Fusobacterium necrophorum* and *Clostridium perfringens*. **Osteomyelitis** due to *Staphylococcus aureus*, *Bacteroides fragilis*, *Prevotella melaninogenicus*, *Fusobacterium necrophorum* and *Clostridium perfringens*.

#### **CATS:**

**Skin infections (wounds and abscesses)** due to *Staphylococcus aureus*, *Staphylococcus intermedius* and *Streptococcus* spp. **Deep wounds and infections** due to *Clostridium perfringens* and *Bacteroides fragilis*. **Dental infections** due to

*Staphylococcus aureus, Staphylococcusintermedius, Streptococcus spp., Clostridium perfringens and Bacteroides fragilis.*

## **DOSAGE AND ADMINISTRATION**

### **Dogs:**

#### **Infected Wounds, Abscesses and Dental Infections**

**Oral:** 2.5 - 15.0 mg/lb body weight every 12 hours.

**Duration:** Treatment with Clindamycin Hydrochloride Oral Drops products may be continued up to a maximum of 28 days if clinical judgment indicates. Treatment of acute infections should not be continued for more than three or four days if no response to therapy is seen.

#### **Dosage Schedule:**

##### **Oral Solution**

**Clindamycin Hydrochloride Oral Drops**, administer 1-6 mL/10 lbs body weight every 12 hours.

### **Dogs:**

#### **Osteomyelitis**

**Oral:** 5.0-15.0 mg/lb body weight every 12 hours.

**Duration:** Treatment with Clindamycin Hydrochloride Oral Drops is recommended for a minimum of 28 days. Treatment should not be continued for longer than 28 days if no response to therapy is seen.

#### **Dosage Schedule:**

##### **Oral Solution**

**Clindamycin Hydrochloride Oral Drops**, administer 2-6 mL/10 lbs body weight every 12 hours.

### **Cats:**

#### **Infected Wounds, Abscesses and Dental Infections**

5.0 - 15.0 mg/lb body weight once every 24 hours depending on the severity of the condition.

**Duration:** Treatment with Clindamycin Hydrochloride Oral Drops may be continued up to a maximum of 14 days if clinical judgment indicates. Treatment of acute infections should not be continued for more than three to four days if no clinical response to therapy is seen.

#### **Dosage Schedule:**

**Clindamycin Hydrochloride Oral Drops**, to provide 5.0 mg/lb, administer 1 mL/5 lbs body weight once every 24 hours; to provide 15.0 mg/lb, administer 3 mL/5 lbs body weight once every 24 hours.

## **CONTRAINDICATIONS**

Clindamycin Hydrochloride Oral Drops is contraindicated in animals with a history of hypersensitivity to preparations containing clindamycin or lincomycin.

Because of potential adverse gastrointestinal effects, do not administer to rabbits, hamsters, guinea pigs, horses, chinchillas or ruminating animals.

## **WARNINGS**

Not for use in humans. Keep out of reach of children. To obtain a Safety Data Sheet(s), contact First Priority, Inc. at (800) 650-4899 or [www.prioritycare.com](http://www.prioritycare.com). Keep Clindamycin Hydrochloride Oral Drops in a secure location out of reach of dogs, cats, and other animals to prevent accidental ingestion or overdose.

## **PRECAUTIONS**

During prolonged therapy of one month or greater, periodic liver and kidney function tests and blood counts should be performed.

The use of Clindamycin Hydrochloride Oral Drops occasionally results in overgrowth of non-susceptible organisms such as clostridia and yeasts. Therefore, the administration of Clindamycin Hydrochloride Oral Drops should be avoided in those species sensitive to the gastrointestinal effects of clindamycin (see **CONTRAINDICATIONS**). Should superinfections occur, appropriate measures should be taken as indicated by the clinical situation.

Patients with very severe renal disease and/or very severe hepatic disease accompanied by severe metabolic aberrations should be dosed with caution, and serum clindamycin levels monitored during high-dose therapy.

Clindamycin hydrochloride has been shown to have neuromuscular blocking properties that may enhance the action of other neuromuscular blocking agents. Therefore, Clindamycin Hydrochloride Oral Drops should be used with caution in animals receiving such agents.

Safety in gestating bitches and queens or breeding male dogs and cats has not been established.

## **ADVERSE REACTIONS**

Side effects occasionally observed in either clinical trials or during clinical use were vomiting and diarrhea.

To report a suspected adverse reaction or to request a material safety data sheet (MSDS), call 1-800-650-4899.

## **ACTIONS**

**Site and Mode of Action:** Clindamycin is an inhibitor of protein synthesis in the bacterial cell. The site of binding appears to be in the 50S sub-unit of the ribosome. Binding occurs to the soluble RNA fraction of certain ribosomes, thereby inhibiting the

binding of amino acids to those ribosomes. Clindamycin differs from cell wall inhibitors in that it causes irreversible modification of the protein-synthesizing subcellular elements at the ribosomal level.

**Microbiology:** Clindamycin is a lincosaminide antimicrobial agent with activity against a wide variety of aerobic and anaerobic bacterial pathogens. Clindamycin is a bacteriostatic compound that inhibits bacterial protein synthesis by binding to the 50S ribosomal subunit. The minimum inhibitory concentrations (MICs) of Gram-positive and obligate anaerobic pathogens isolated from dogs and cats in the United States are presented in Table 1 and Table 2. Bacteria were isolated in 1998-1999. All MICs were performed in accordance with the National Committee for Clinical Laboratory Standards (NCCLS).

**Table 1. Clindamycin MIC Values ( $\mu\text{g}/\text{mL}$ ) from Diagnostic Laboratory Survey Data Evaluating Canine Pathogens in the U.S. During 1998-99<sup>1</sup>**

Organism	Number of Isolates	MIC <sub>50</sub>	MIC <sub>85</sub>	MIC <sub>90</sub>	Range
Soft Tissue/Wound <sup>2</sup>					
<i>Staphylococcus aureus</i>	17	0.5	0.5	$\geq 4.0$	0.25- $\geq 4.0$
<i>Staphylococcus intermedius</i>	28	0.25	0.5	$\geq 4.0$	0.125- $\geq 4.0$
<i>Staphylococcus</i> spp.	18	0.5	0.5	$\geq 4.0$	0.25- $\geq 4.0$
Beta-hemolytic streptococci	46	0.5	0.5	$\geq 4.0$	0.25- $\geq 4.0$
<i>Streptococcus</i> spp.	11	0.5	$\geq 4.0$	$\geq 4.0$	0.25- $\geq 4.0$
Osteomyelitis/Bone <sup>3</sup>					
<i>Staphylococcus aureus</i>	20	0.5	0.5	0.5	0.5 <sup>4</sup>
<i>Staphylococcus intermedius</i>	15	0.5	$\geq 4.0$	$\geq 4.0$	0.25- $\geq 4.0$
<i>Staphylococcus</i> spp.	18	0.5	$\geq 4.0$	$\geq 4.0$	0.25- $\geq 4.0$
Beta-hemolytic streptococci	21	0.5	2.0	2.0	0.25- $\geq 4.0$
<i>Streptococcus</i> spp.	21	$\geq 4.0$	$\geq 4.0$	$\geq 4.0$	0.25- $\geq 4.0$
Dermal/Skin <sup>5</sup>					
<i>Staphylococcus aureus</i>	25	0.5	$\geq 4.0$	$\geq 4.0$	0.25- $\geq 4.0$
<i>Staphylococcus intermedius</i>	48	0.5	$\geq 4.0$	$\geq 4.0$	0.125- $\geq 4.0$
<i>Staphylococcus</i> spp.	32	0.5	$\geq 4.0$	$\geq 4.0$	0.25- $\geq 4.0$
Beta-hemolytic streptococci	17	0.5	0.5	0.5	0.25-0.5

<sup>1</sup> The correlation between the *in vitro* susceptibility data and clinical response has not been determined.

<sup>2</sup> Soft Tissue/Wound: includes samples labeled wound, abscess, aspirate, exudates, draining tract, lesion, and mass

<sup>3</sup> Osteomyelitis/Bone: includes samples labeled bone, fracture, joint, tendon

<sup>4</sup> No range, all isolates yielded the same value

<sup>5</sup> Dermal/Skin: includes samples labeled skin, skin swab, biopsy, incision, lip

**Table 2. Clindamycin MIC Values ( $\mu\text{g}/\text{mL}$ ) from Diagnostic Laboratory Survey Data Evaluating Feline Pathogens**

## from Wound and Abscess Samples in the U.S. During 1998<sup>1</sup>

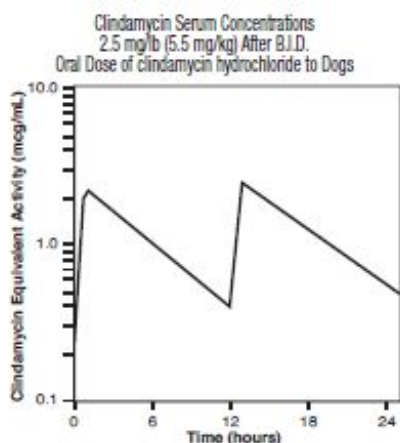
Organism	Number of Isolates	MIC <sub>50</sub>	MIC <sub>90</sub>	Range
<i>Bacteroides/Prevotella</i>	30	0.06	4.0	≤0.015-4.0
<i>Fusobacterium</i> spp.	17	0.25	0.25	≤0.015-0.5
<i>Peptostreptococcus</i> spp.	18	0.13	0.5	≤0.015-8.0
<i>Porphyromonas</i> spp.	13	0.06	0.25	≤0.015-8.0

<sup>1</sup> The correlation between the *in vitro* susceptibility data and clinical response has not been determined.

### PHARMACOLOGY

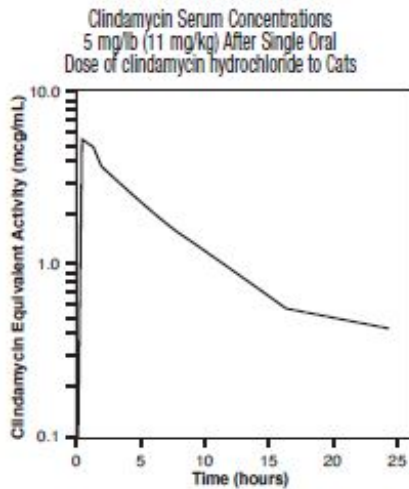
**Absorption:** Clindamycin hydrochloride is rapidly absorbed from the canine and feline gastrointestinal tract.

#### Dog Serum Levels:



Serum levels at or above 0.5 µg/mL can be maintained by oral dosing at a rate of 5.0 mg/lb of clindamycin hydrochloride every 12 hours. This same study revealed that average peak serum concentrations of clindamycin occur 1 hour and 15 minutes after oral dosing. The elimination half-life for clindamycin in dog serum was approximately 5 hours. There was no bioactivity accumulation after a regimen of multiple oral doses in healthy dogs.

#### Cat Serum Levels:



Serum levels at or above 0.5 µg/mL can be maintained by oral dosing at a rate of 5.0 mg/lb of clindamycin hydrochloride every 24 hours. The average peak serum concentration of clindamycin occurs approximately 1 hour after oral dosing. The elimination half-life of clindamycin in feline serum is approximately 7.5 hours. In healthy cats, minimal accumulation occurs after multiple oral doses of clindamycin hydrochloride, and steady-state should be achieved by the third dose.

## METABOLISM AND EXCRETION

Extensive studies of the metabolism and excretion of clindamycin hydrochloride administered orally in animals and humans have shown that unchanged drug and bioactive and bioinactive metabolites are excreted in urine and feces. Almost all of the bioactivity detected in serum after Clindamycin Hydrochloride Oral Drops product administration is due to the parent molecule (clindamycin). Urine bioactivity, however, reflects a mixture of clindamycin and active metabolites, especially N-demethyl clindamycin and clindamycin sulfoxide.

## ANIMAL SAFETY SUMMARY

**Rat and Dog Data:** One year oral toxicity studies in rats and dogs at doses of 30, 100 and 300 mg/kg/day (13.6, 45.5 and 136.4 mg/lb/day) have shown clindamycin hydrochloride to be well tolerated. Differences did not occur in the parameters evaluated to assess toxicity when comparing groups of treated animals with contemporary controls. Rats administered clindamycin hydrochloride at 600 mg/kg/day (272.7 mg/lb/day) for six months tolerated the drug well; however, dogs orally dosed at 600 mg/kg/day (272.7 mg/lb/day) vomited, had anorexia, and subsequently lost weight. At necropsy these dogs had erosive gastritis and focal areas of necrosis of the mucosa of the gallbladder.

Safety in gestating bitches or breeding males has not been established.

## ANIMAL SAFETY SUMMARY

**Cat Data:** The recommended daily therapeutic dose range for clindamycin hydrochloride (Clindamycin Hydrochloride Oral Drops) is 11 to 33 mg/kg/day (5 to 15 mg/lb/day) depending on the severity of the condition. Clindamycin hydrochloride (Clindamycin Hydrochloride Oral Drops) was tolerated with little evidence of toxicity in

domestic shorthair cats when administered orally at 10x the minimum recommended therapeutic daily dose (11 mg/kg; 5 mg/lb) for 15 days, and at doses up to 5x the minimum recommended therapeutic dose for 42 days.

Gastrointestinal tract upset (soft feces to diarrhea) occurred in control and treated cats with emesis occurring at doses 3x or greater than the minimum recommended therapeutic dose (11 mg/kg/day; 5 mg/lb/day). Lymphocytic inflammation of the gallbladder was noted in a greater number of treated cats at the 110 mg/kg/day (50 mg/lb/day) dose level than for control cats. No other effects were noted. Safety in gestating queens or breeding male cats has not been established.

## **HOW SUPPLIED**

Clindamycin Hydrochloride Oral Drops is available as 20 mL filled in 30 mL bottles (25 mg/mL) supplied in packers containing 12 cartoned bottles with direction labels and calibrated dosing droppers.

## **CONTACT INFORMATION**

To report suspected adverse events, for technical assistance or to obtain a copy of the Safety Data Sheet (SDS), contact First Priority, Inc. at (800) 650-4899 or [www.prioritycare.com](http://www.prioritycare.com). For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or <http://www.fda.gov/reportanimalae>

## **STORAGE**

Store at controlled room temperature between 20° to 25° C (68° to 77° F) [see USP].  
Keep container closed when not in use.



Approved by FDA under ANADA # 200-398

Manufactured by:

First Priority, Inc., Elgin, IL 60123

[www.prioritycare.com](http://www.prioritycare.com)

Pkg insert Rev. 10-22

Distributed by: **MWI**

Boise, ID 83705

[www.VetOne.net](http://www.VetOne.net)

## **Bottle/case Label**

**RECOMMENDED DOG DOSAGE:** For therapy of wounds, abscesses and dental infections, orally administer 2.5 - 15.0 mg/lb (1 - 6 mL/10 lbs) body weight every 12 hours. For therapy of osteomyelitis orally administer 5.0 - 15.0 mg/lb (2-6 mL/10 lbs) body weight every 12 hours.

**RECOMMENDED CAT DOSAGE:** For therapy of wounds, abscesses and dental infections, orally administer 1 - 3 mL/5 lbs body weight once every 24 hours depending on the severity of the condition. See package insert for complete product information.



NDC 13985-359-20

20 mL

**VET one**  
**ZydaClin™**

(clindamycin hydrochloride oral solution)

Oral Drops

Approved for use in dogs and cats  
Equivalent to 25 mg per mL  
clindamycin

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

**Not for Use in Humans  
Keep Out of Reach of Children**

Approved by FDA under  
ANADA # 200-398



V1 510143

Net Contents: 20 mL (0.68 fl oz)

**ACTIVE INGREDIENT:** Each mL contains: Clindamycin hydrochloride equivalent to 25 mg clindamycin; and ethyl alcohol, 8.64%.

**WARNINGS:** Not for use in humans. Keep out of reach of children. To obtain a Safety Data Sheet(s), contact First Priority, Inc. at (800) 650-4899 or [www.prioritycare.com](http://www.prioritycare.com). Keep ZydaClin™ in a secure location out of reach of dogs, cats, and other animals to prevent accidental ingestion or overdose.

**STORAGE:** Store at controlled room temperature between 20°C to 25°C (68°F - 77°F) [see USP]. Keep container tightly closed when not in use.

Lot No.                      Exp. Date

**NO VARNISH**

Distributed by: MWI  
Boise, ID 83705  
[www.VetOne.net](http://www.VetOne.net)  
Rev. 01/23





Approved for use in dogs and cats  
Equivalent to 25 mg per mL clindamycin  
Net Contents: 20 mL (0.68 fl oz)

ZydaClin™  
(clindamycin hydrochloride oral solution)

VET one  
20 mL  
NDC 13 985-359 20

NDC 13985-359-20

20 mL

VET one  
ZydaClin™  
(clindamycin hydrochloride oral solution)

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VET one  
ZydaClin™  
(clindamycin hydrochloride oral solution)

DIRECTIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
NO VARNISH

Oral Drops

Oral Drops

Oral Drops

Approved for use in dogs and cats  
Equivalent to 25 mg per mL clindamycin



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

Not for Use in Humans  
Keep Out of Reach of Children

Approved by FDA under  
ANADA # 200-398



V1 510143 Net Contents: 20 mL (0.68 fl oz)

Distributed by: MWI  
Belle, ID 83705  
www.VetOne.net Rev: 01/23



RECOMMENDED DOG DOSAGE: For therapy of wounds, abscesses and dental infections, orally administer 2.5 - 15.0 mg/lb (1 - 6 mL/10 lbs) body weight every 12 hours. For therapy of osteomyelitis orally administer 5.0 - 15.0 mg/lb (2-6 mL/10 lbs) body weight every 12 hours.

RECOMMENDED CAT DOSAGE: For therapy of wounds, abscesses and dental infections, orally administer 1 - 3 mL/5 lbs body weight once every 24 hours depending on the severity of the condition. See package insert for complete product information.

Warnings: Not for use in humans. Keep out of reach of children. To obtain a Safety Data Sheet(s), contact First Priority, Inc. at (800) 650-4899 or www.prioritycare.com. Keep ZydaClin™ in a secure location out of reach of dogs, cats, and other animals to prevent accidental ingestion or overdose.

STORAGE: Store at controlled room temperature between 20°C to 25°C (68°F to 77°F) [see USP].

EACH mL CONTAINS: Clindamycin hydrochloride equivalent to 25 mg clindamycin; and ethyl alcohol, 8.64%.

THIS CARTON CONTAINS:  
20 mL of ZydaClin™ Oral Drops in a 30 mL bottle.



Lot No: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

NO VARNISH



Quantity: **12** bottles ZydaClin 25mg  
(12 x 20mL each)

**V1 510143**



10 3 13985 00539 5

Lot No. Exp. Date  
**NO VARNISH**

Approved by FDA under  
ANADA # 200-398  
Label Rev. 01/23

## ZYDACLIN

clinamycin hydrochloride liquid

### Product Information

<b>Product Type</b>	PRESCRIPTION ANIMAL DRUG	<b>Item Code (Source)</b>	NDC:13985-359
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>CLINDAMYCIN HYDROCHLORIDE</b> (UNII: T200Q1YN1W) (CLINDAMYCIN - UNII:3U02EL437C)	CLINDAMYCIN	25 mg in 1 mL

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:13985-359-20	12 in 1 CASE		
1		1 in 1 CARTON		
1		20 mL in 1 BOTTLE, GLASS		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANADA	ANADA200398	08/28/2014	

**Labeler - MWI (019926120)**

### Establishment

Name	Address	ID/FEI	Business Operations
FIRST PRIORITY INCORPORATED		179925722	manufacture

Revised: 9/2023

MWI