

## **DOXYCYCLINE HYCLATE- doxycycline hyclate tablet** **Larken Laboratories, Inc.**

### **DOXYCYCLINE HYCLATE TABLETS, USP**

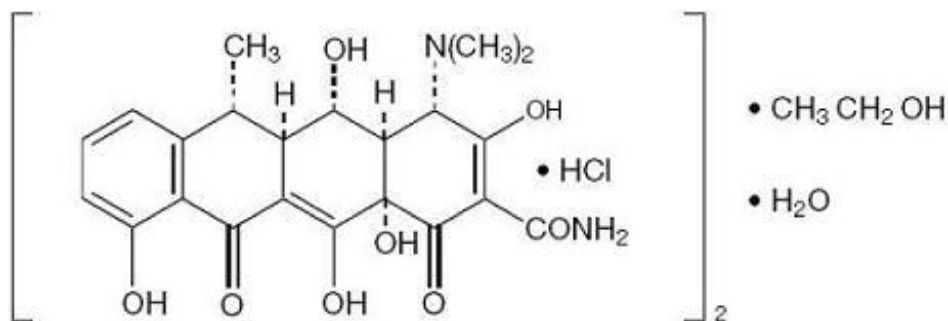
#### **Rx Only**

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Doxycycline Hyclate Tablets, USP and other antibacterial drugs, Doxycycline Hyclate Tablets, USP should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria.

#### **DESCRIPTION**

Doxycycline hyclate tablets are available as a 20 mg formulation of doxycycline for oral administration.

The structural formula of doxycycline hyclate is:



with a structural formula of (C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub>•HCl)<sub>2</sub>•C<sub>2</sub>H<sub>6</sub>O•H<sub>2</sub>O and a molecular weight of 1025.89. The chemical designation for doxycycline is 4-(dimethylamino)-1, 4, 4a, 5, 5a, 6, 11, 12a-octahydro-3, 5, 10, 12, 12a-octahydro-3, 5, 10, 12, 12a-pentahydroxy-6-methyl-1, 11-dioxo-2-naphthacenecarboxamide monohydrochloride, compound with ethyl alcohol (2:1), monohydrate.

Doxycycline hyclate is a yellow to light-yellow crystalline powder which is soluble in water.

#### **Inactive Ingredients:**

Colloidal silicon dioxide, hypromellose, anhydrous lactose, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polysorbate 80, sodium starch glycolate, talc, and titanium oxide. Each tablet contains 23 mg of doxycycline hyclate equivalent to 20 mg of doxycycline.

#### **CLINICAL PHARMACOLOGY**

After oral administration, doxycycline hyclate is rapidly and nearly completely absorbed

from the gastrointestinal tract. Doxycycline is eliminated with a half-life of approximately 18 hours by renal and fecal excretion of unchanged drug.

## Mechanism of Action

Doxycycline has been shown to inhibit collagenase activity in vitro. <sup>1</sup> Additional studies have shown that doxycycline reduces the elevated collagenase activity in the gingival crevicular fluid of patients with adult periodontitis. <sup>2,3</sup> The clinical significance of these findings is not known.

## Microbiology

Doxycycline is a member of the tetracycline class of antibiotics. The dosage of doxycycline achieved with this product during administration is well below the concentration required to inhibit microorganisms commonly associated with adult periodontitis. Clinical studies with this product demonstrated no effect on total anaerobic and facultative bacteria in plaque samples from patients administered this dose regimen for 9 to 18 months. This product **should not** be used for reducing the numbers of or eliminating those microorganisms associated with periodontitis.

## Pharmacokinetics

The pharmacokinetics of doxycycline following oral administration of doxycycline hyclate tablets were investigated in 4 volunteer studies involving 107 adults. Additionally, doxycycline pharmacokinetics have been characterized in numerous scientific publications. <sup>4</sup> Pharmacokinetic parameters for doxycycline hyclate tablets following single oral doses and at steady-state in healthy subjects are presented as follows:

**Pharmacokinetic Parameters for Doxycycline Hyclate Tablets**

	N	C <sub>max</sub> <sup>*</sup> (ng/mL)	T <sub>max</sub> <sup>†</sup> (hr)	Cl/F <sup>*</sup> (L/hr)	t <sub>1/2</sub> (hr)
Single dose 20 mg (tablet)	20	362±101	1.4 (1.0-2.5)	3.85±1.3	18.1±4.85
Steady-State 20 mg BID ‡	30	790±285	2 (0.98-12.0)	3.76±1.06	Not Determined

\* Mean ± SD

† Mean and range

‡ Steady-State data were obtained from normal volunteers administered a bioequivalent formulation.

**Absorption:** Doxycycline is well absorbed after oral administration. In a single-dose study, concomitant administration of doxycycline hyclate tablets with a 1000 calorie, high-fat, high-protein meal which included dairy products, in healthy volunteers, resulted in a decrease in the rate and extent of absorption and delay in the time to maximum concentrations.

**Distribution:** Doxycycline is greater than 90% bound to plasma proteins. Its apparent volume of distribution is variously reported as between 52.6 and 134 L. <sup>4,6</sup>

**Metabolism:** Major metabolites of doxycycline have not been identified. However, enzyme inducers such as barbiturates, carbamazepine, and phenytoin decrease the half-life of doxycycline.

**Excretion:** Doxycycline is excreted in the urine and feces as unchanged drug. It is variously reported that between 29% and 55.4% of an administered dose can be accounted for in the urine by 72 hours.<sup>5,6</sup> Half-life averaged 18 hours in subjects receiving a single 20 mg doxycycline dose.

## **Special Populations**

### **Geriatric Use**

Doxycycline pharmacokinetics have not been evaluated in geriatric patients.

### **Pediatric Use**

Doxycycline pharmacokinetics have not been evaluated in pediatric patients (See **WARNINGS** section).

**Gender:** Doxycycline pharmacokinetics were compared in 9 men and 11 women under fed and fasted conditions. While female subjects had a higher rate ( $C_{max}$ ) and extent of absorption (AUC), these differences are thought to be due to differences in body weight/lean body mass. Differences in other pharmacokinetic parameters were not significant.

**Race:** Differences in doxycycline pharmacokinetics among racial groups have not been evaluated.

**Renal Insufficiency:** Studies have shown no significant difference in serum half-life of doxycycline in patients with normal and severely impaired renal function. Hemodialysis does not alter the half-life of doxycycline.

**Hepatic Insufficiency:** Doxycycline pharmacokinetics have not been evaluated in patients with hepatic insufficiency.

## **Drug Interactions**

(See **PRECAUTIONS** section)

## **Clinical Study**

In a randomized, multi-centered, double-blind, 9-month Phase 3 study involving 190 adult patients with periodontal disease [at least two probing sites per quadrant of between 5 and 9 mm pocket depth (PD) and attachment level (ALv)], the effects of oral administration of 20 mg twice a day of doxycycline hyclate (using a bioequivalent capsule formulation) plus scaling and root planing (SRP) were compared to placebo control plus SRP. Both treatment groups were administered a course of scaling and root planing in 2 quadrants at Baseline. Measurements of ALv, PD and bleeding-on-probing (BOP) were obtained at Baseline, 3, 6, and 9 months from each site about each tooth in the two quadrants that received SRP using the UNC-15 manual probe. Each tooth site was categorized into one of three strata based on Baseline PD: 0-3 mm (no disease), 4-6 mm (mild/moderate disease),  $\geq 7$  mm (severe disease). For each stratum and treatment group, the following were calculated at month 3, 6, and 9: mean change in ALv from baseline, mean change in PD from baseline, mean percentage of tooth sites per patient exhibiting attachment loss of  $\geq 2$  mm from baseline, and percentage of tooth sites with bleeding on probing. The results are summarized in the following table.

## **Clinical Results at Nine Months of Doxycycline Hyclate Capsules, 20 mg, as an**

## Adjunct to SRP(Bioequivalent to Doxycycline Hyclate Tablets, 20 mg)

Parameter	Baseline Pocket Depth		
	0-3 mm	4-6 mm	≥ 7 mm
Number of Patients (Doxycycline Hyclate Tablets 20mg BID)	90	90	79
Number of Patients (Placebo)	93	93	78
Mean Gain (SD) in ALv *		1.03 (0.47) mm	1.55 (1.16)mm
Doxycycline Hyclate 20 mg BID	0.25 (0.29) mm	†	†
Placebo	0.20 (0.29) mm	0.86 (0.48) mm	1.17 (1.15) mm
Mean Decrease (SD ‡) in PD §			
Doxycycline Hyclate 20 mg BID	0.16 (0.19) mm ¶	0.95 (0.47) mm ¶	1.68 (1.07)mm ¶
Placebo	0.05 (0.19) mm	0.69 (0.48) mm	1.20 (1.06) mm
% of Sites (SD ‡) with loss of ALv * ≥ 2 mm			
Doxycycline Hyclate 20 mg BID	1.9 (4.2)%	1.3 (4.5)%	0.3 (9.4)% †
Placebo	2.2 (4.1)%	2.4 (4.4)%	3.6 (9.4)%
% of Sites (SD ‡) with BOP #			
Doxycycline Hyclate 20 mg BID	39 (19)% ¶	64 (18)% †	75 (29)%
Placebo	46 (19)%	70 (18)%	80 (29)%

\* ALv=Clinical Attachment Level

† p<0.050 vs. the placebo control group.

‡ SD=Standard Deviation

§ PD=Pocket Depth

¶ p<0.010 vs. the placebo control group.

# BOP=Bleeding on Probing

## INDICATIONS AND USAGE

Doxycycline hyclate tablets are indicated for use as an adjunct to scaling and root planing to promote attachment level gain and to reduce pocket depth in patients with adult periodontitis.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Doxycycline Hyclate Tablets, USP and other antibacterial drugs, Doxycycline Hyclate Tablets, USP should be used only to treat or prevent infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

## CONTRAINDICATIONS

This drug is contraindicated in persons who have shown hypersensitivity to doxycycline or any of the other tetracyclines.

## **WARNINGS**

THE USE OF DRUGS OF THE TETRACYCLINE CLASS DURING TOOTH DEVELOPMENT (LAST HALF OF PREGNANCY, INFANCY AND CHILDHOOD TO THE AGE OF 8 YEARS) MAY CAUSE PERMANENT DISCOLORATION OF THE TEETH (YELLOW-GRAY-BROWN). This adverse reaction is more common during long-term use of the drugs but has been observed following repeated short-term courses. Enamel hypoplasia has also been reported. TETRACYCLINE DRUGS, THEREFORE, SHOULD NOT BE USED IN THIS AGE GROUP AND IN PREGNANT OR NURSING MOTHERS UNLESS THE POTENTIAL BENEFITS MAY BE ACCEPTABLE DESPITE THE POTENTIAL RISKS.

All tetracyclines form a stable calcium complex in any bone forming tissue. A decrease in fibula growth rate has been observed in premature infants given oral tetracyclines in doses of 25 mg/kg every 6 hours. This reaction was shown to be reversible when the drug was discontinued.

Doxycycline can cause fetal harm when administered to a pregnant woman. Results of animal studies indicate that tetracyclines cross the placenta, are found in fetal tissues, and can have toxic effects on the developing fetus (often related to retardation of skeletal development). Evidence of embryotoxicity has also been noted in animals treated early in pregnancy. If any tetracyclines are used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus.

The catabolic action of the tetracyclines may cause and increase in BUN. Previous studies have not observed an increase in BUN with the use of doxycycline in patients with impaired renal function.

Photosensitivity manifested by an exaggerated sunburn reaction has been observed in some individuals taking tetracyclines. Patients apt to be exposed to direct sunlight or ultraviolet light should be advised that this reaction can occur with tetracycline drugs, and treatment should be discontinued at the first evidence of skin erythema.

## **PRECAUTIONS**

### **General**

Prescribing Doxycycline Hyclate Tablets, USP in the absence of a proven or strongly suspected bacterial infection or a prophylactic indication is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

While no overgrowth by opportunistic microorganisms such as yeast were noted during clinical studies, as with other antimicrobials, doxycycline hyclate tablets therapy may result in overgrowth of non-susceptible microorganisms including fungi.

The use of tetracyclines may increase the incidence of vaginal candidiasis.

Doxycycline hyclate tablets should be used with caution in patients with a history or predisposition to oral candidiasis. The safety and effectiveness of doxycycline hyclate tablets has not been established for the treatment of periodontitis in patients with coexistent oral candidiasis.

If superinfection is suspected, appropriate measures should be taken.

### **Information for Patients**

Patients should be counseled that antibacterial drugs including Doxycycline Hyclate Tablets, USP should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When Doxycycline Hyclate Tablets, USP are prescribed to treat a bacterial infection, patients should be told that although it is common to feel better early in the course of therapy, the medication should be taken exactly as directed. Skipping doses or not completing the full course of therapy may (1) decrease the effectiveness of the immediate treatment and (2) increase the likelihood that bacteria will develop resistance and will not be treatable by Doxycycline Hyclate Tablets, USP or other antibacterial drugs in the future.

### **Laboratory Tests**

In long term therapy, periodic laboratory evaluations of organ systems, including hematopoietic, renal, and hepatic studies should be performed.

### **Drug Interactions**

Because tetracyclines have been shown to depress plasma prothrombin activity, patients who are on anticoagulant therapy may require downward adjustment of their anticoagulant dosage.

Since bacterial antibiotics, such as the tetracycline class of antibiotics, may interfere with the bactericidal action of members of the  $\beta$ -lactam (e.g. penicillin) class of antibiotics, it is not advisable to administer these antibiotics concomitantly.

Absorption of tetracyclines is impaired by antacids containing aluminum, calcium, or magnesium, and iron containing preparations, and by bismuth subsalicylate.

Barbiturates, carbamazepine, and phenytoin decrease the half-life of doxycycline.

The concurrent use of tetracycline and methoxyflurane has been reported to result in fatal renal toxicity.

Concurrent use of tetracyclines may render oral contraceptives less effective.

### **Drug/Laboratory Test Interactions**

False elevations of urinary catecholamine levels may occur due to interference with the fluorescence test.

### **Carcinogenesis, Mutagenesis, Impairment of Fertility**

Doxycycline hyclate has not been evaluated for carcinogenic potential in long-term animal studies. Evidence of oncogenic activity was obtained in studies with related compounds, i.e., oxytetracycline (adrenal and pituitary tumors), and minocycline (thyroid tumors).

Doxycycline hyclate demonstrated no potential to cause genetic toxicity in an in vitro point mutation study with mammalian cells (CHO/HGPRT forward mutation assay) or in an in vivo micronucleus assay conducted in CD-1 mice. However, data from an *in vitro* assay with CHO cells for potential to cause chromosomal aberrations suggest that

doxycycline hyclate is a weak clastogen.

Oral administration of doxycycline hyclate to male and female Sprague-Dawley rats adversely affected fertility and reproductive performance, as evidenced by increased time for mating to occur, reduced sperm motility, velocity, and concentration, abnormal sperm morphology, and increased pre-and post-implantation losses. Doxycycline hyclate induced reproductive toxicity at all dosages that were examined in this study, as even the lowest dosage tested (50 mg/kg/day) induced a statistically significant reduction in sperm velocity. Note that 50 mg/kg/day is approximately 10 times the amount of doxycycline hyclate contained in the recommended daily dose of doxycycline hyclate tablets for a 60 kg human when compared on the basis of body surface area estimates ( $\text{mg}/\text{m}^2$ ). Although doxycycline impairs the fertility of rats when administered at sufficient dosage, the effect of doxycycline hyclate tablets on human fertility is unknown.

## **Pregnancy**

Teratogenic Effects

### ***Pregnancy Category D***

(See **WARNINGS** Section). Results from animal studies indicate that doxycycline crosses the placenta and is found in fetal tissues.

Nonteratogenic effects

(See **WARNINGS** Section).

## **Labor and Delivery**

The effect of tetracyclines on labor and delivery is unknown.

## **Nursing Mothers**

Tetracyclines are excreted in human milk. Because of the potential for serious adverse reactions in nursing infants from doxycycline, the use of doxycycline hyclate tablets in nursing mothers is contraindicated. (See **WARNINGS** Section).

## **Pediatric Use**

The use of doxycycline hyclate tablets in infancy and childhood is contraindicated. (See **WARNINGS** section.)

## **Information for Patients**

Patients should be counseled that antibacterial drugs including doxycycline hyclate should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When doxycycline hyclate is prescribed to treat a bacterial infection, patients should be told that although it is common to feel better early in the course of therapy, the medication should be taken exactly as directed. Skipping doses or not completing the full course of therapy may (1) decrease the effectiveness of the immediate treatment and (2) increase the likelihood that bacteria will develop resistance and will not be treatable by doxycycline hyclate or other antibacterial drugs in the future.

## ADVERSE REACTIONS

**Adverse Reactions in Clinical Trials of a bioequivalent form of doxycycline hyclate capsules:** In clinical trials of adult patients with periodontal disease 213 patients received 20 mg BID over a 9 - 12 month period. The most frequent adverse reactions occurring in studies involving treatment with a bioequivalent form of doxycycline hyclate capsules or placebo are listed below:

### **Incidence (%) of Adverse Reactions in Clinical Trials of Doxycycline Hyclate Capsules, 20 mg(Bioequivalent to Doxycycline Hyclate Tablets, 20 mg) vs. Placebo**

<b>Adverse Reaction</b>	<b>Doxycycline Hyclate Capsules 20 mg BID (n=213)</b>	<b>Placebo (n=215)</b>
Headache	55 (26%)	56 (26%)
Common Cold	47 (22%)	46 (21%)
Flu Symptoms	24 (11%)	40 (19%)
Tooth Ache	14 (7%)	28 (13%)
Periodontal Abscess	8 (4%)	21 (10%)
Tooth Disorder	13 (6%)	19 (9%)
Nausea	17 (8%)	12 (6%)
Sinusitis	7 (3%)	18 (8%)
Injury	11 (5%)	18 (8%)
Dyspepsia	13 (6%)	5 (2%)
Sore Throat	11 (5%)	13 (6%)
Joint Pain	12 (6%)	8 (4%)
Diarrhea	12 (6%)	8 (4%)
Sinus Congestion	11 (5%)	11 (5%)
Coughing	9 (4%)	11 (5%)
Sinus Headache	8 (4%)	8 (4%)
Rash	8 (4%)	6 (3%)
Back Pain	7 (3%)	8 (4%)
Back Ache	4 (2%)	9 (4%)
Menstrual Cramp	9 (4%)	5 (2%)
Acid Indigestion	8 (4%)	7 (3%)
Pain	8 (4%)	5 (2%)
Infection	4 (2%)	6 (3%)
Gum Pain	1(<1%)	6 (3%)
Bronchitis	7 (3%)	5 (2%)
Muscle Pain	2 (1%)	6 (3%)

Note: Percentages are based on total number of study participants in each treatment group.

**Adverse Reactions for Tetracyclines:** The following adverse reactions have been observed in patients receiving tetracyclines:

Gastrointestinal: anorexia, nausea, vomiting, diarrhea, glossitis, dysphagia, enterocolitis, and inflammatory lesions (with vaginal candidiasis) in the anogenital region.

Hepatotoxicity has been reported rarely. Rare instances of esophagitis and esophageal ulcerations have been reported in patients receiving the capsule forms of the drugs in the tetracycline class. Most of these patients took medications immediately before going to bed. (See **DOSAGE AND ADMINISTRATION** Section).

Skin: maculopapular and erythematous rashes. Exfoliative dermatitis has been reported but is uncommon. Photosensitivity is discussed above. (See **WARNINGS** Section).

Renal toxicity: Rise in BUN has been reported and is apparently dose related. (See **WARNINGS** Section).

Hypersensitivity reactions: urticaria, angioneurotic edema, anaphylaxis, anaphylactoid purpura, serum sickness, pericarditis, and exacerbation of systemic lupus erythematosus.

Blood: Hemolytic anemia, thrombocytopenia, neutropenia, and eosinophilia have been reported.

**To report SUSPECTED ADVERSE REACTIONS, contact Larken Laboratories, Inc. at 1-601-855-7678 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch)**

## **OVERDOSAGE**

In case of overdosage, discontinue medication, treat symptomatically and institute supportive measures. Dialysis does not alter serum half-life and thus would not be of benefit in treating cases of overdose.

## **DOSAGE AND ADMINISTRATION**

THE DOSAGE OF DOXYCYCLINE HYCLATE TABLETS DIFFERS FROM THAT OF DOXYCYCLINE USED TO TREAT INFECTIONS. EXCEEDING THE RECOMMENDED DOSAGE MAY RESULT IN AN INCREASED INCIDENCE OF SIDE EFFECTS INCLUDING THE DEVELOPMENT OF RESISTANT MICROORGANISMS.

Doxycycline hyclate tablets 20 mg twice daily as an adjunct following scaling and root planing may be administered for up to 9 months. Doxycycline should be taken twice daily at 12 hour intervals, usually in the morning and evening. It is recommended that if doxycycline hyclate is taken close to meal times, allow at least one hour prior to or two hours after meals. Safety beyond 12 months and efficacy beyond 9 months have not been established.

Administration of adequate amounts of fluid along with the tablets is recommended to wash down the drug and reduce the risk of esophageal irritation and ulceration. (See **ADVERSE REACTIONS** Section).

## **HOW SUPPLIED**

Doxycycline hyclate are white film coated, round, biconvex tablets, debossed LL714 on one side and plain on the other side containing doxycycline hyclate equivalent to 20 mg doxycycline. Bottle of 60 tablets (NDC 68047-714-60) and Bottle of 100 tablets (NDC

68047-714-01).

## **Storage and Handling**

Store at 20°-25°C (68°-77°F). [See USP Controlled Room Temperature].

Dispense in tight, light-resistant containers (USP).

Manufactured for:

Larken Laboratories, Inc.

Canton, MS 39046

www.larkenlabs.com

500398-04


Rev. 07/21

## **REFERENCES**

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3. Golub L.M., Lee H.M., Greenwald R.A., Ryan M.E., Salo T., Giannobile W.V.: A Matrix Metalloproteinase Inhibitor Reduces Bone-type Collagen Degradation Fragments and Specific Collagenases in Gingival Crevicular Fluid During Adult Periodontitis. Inflammation Research 1997; 46: 310-319.
4. Saivain S., Houin G.: Clinical Pharmacokinetics of Doxycycline and Minocycline. Clin. Pharmacokinetics 1988; 15: 355-366.
5. Schach von Wittenau M., Twomey T.: The Disposition of Doxycycline by Man and Dog. Chemotherapy 1971; 16: 217-228.
6. Campistron G., Coulais Y., Caillard C., Mosser J., Pontagnier H., Houin G.: Pharmacokinetics and Bioavailability of Doxycycline in Humans. Arzneimittel Forschung 1986; 36: 1705-1707.

## **PACKAGE LABEL.PRINCIPAL DISPLAY PANEL**


### **Figure 2: 60 count Label**



NDC 68047-714-60

## Doxycycline Hyclate Tablets, USP

**20 mg\***  
Rx only  
60 Tablets



Canton, MS 39046  
www.larkenlabs.com

**\*Each film coated tablet contains:** Doxycycline hyclate equivalent to 20 mg of doxycycline.


**Inactive ingredients:** colloidal silicon dioxide, hypromellose, anhydrous lactose, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polysorbate 80, sodium starch glycolate, talc, and titanium dioxide.

**DOSAGE:** See package insert for dosage information.

**KEEP THIS AND ALL DRUGS OUT OF REACH OF CHILDREN.**

Dispense in tight, light-resistant containers as defined in the USP.  
Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].


**Figure 3: 100 count Label**



NDC 68047-714-01

## Doxycycline Hyclate Tablets, USP

**20 mg\***  
Rx only  
100 Tablets



Canton, MS 39046  
www.larkenlabs.com

**\*Each film coated tablet contains:** Doxycycline hyclate equivalent to 20 mg of doxycycline.

**Inactive ingredients:** colloidal silicon dioxide, hypromellose, anhydrous lactose, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polysorbate 80, sodium starch glycolate, talc, and titanium dioxide.

**DOSAGE:** See package insert for dosage information.

**KEEP THIS AND ALL DRUGS OUT OF REACH OF CHILDREN.**

Dispense in tight, light-resistant containers as defined in the USP.  
Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].

## DOXYCYCLINE HYCLATE

doxycycline hyclate tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:68047-714
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>DOXYCYCLINE HYCLATE</b> (UNII: 19XTS3T51U) (DOXYCYCLINE ANHYDROUS - UNII:334895S862)	DOXYCYCLINE ANHYDROUS	20 mg

### Inactive Ingredients

Ingredient Name	Strength
<b>HYPROMELLOSE 2910 (3 MPA.S)</b> (UNII: 0VUT3PMY82)	
<b>SILICON DIOXIDE</b> (UNII: ETJ7Z6XBU4)	

<b>HYPROMELLOSE 2910 (6 MPA.S)</b> (UNII: 0WZ8WG20P6)	
<b>ANHYDROUS LACTOSE</b> (UNII: 3SY5LH9PMK)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>CELLULOSE, MICROCRYSTALLINE</b> (UNII: OP1R32D61U)	
<b>POLYETHYLENE GLYCOL 400</b> (UNII: B697894SGQ)	
<b>POLYSORBATE 80</b> (UNII: 6OZP39ZG8H)	
<b>SODIUM STARCH GLYCOLATE TYPE A POTATO</b> (UNII: 5856J3G2A2)	
<b>TALC</b> (UNII: 7SEV7J4R1U)	
<b>TITANIUM DIOXIDE</b> (UNII: 15FIX9V2JP)	

### Product Characteristics

<b>Color</b>	yellow (STRAW)	<b>Score</b>	no score
<b>Shape</b>	ROUND (BICONVEX)	<b>Size</b>	8mm
<b>Flavor</b>		<b>Imprint Code</b>	LL714
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68047-714-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	11/15/2010	
2	NDC:68047-714-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	11/15/2010	

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA065287	11/15/2010	

**Labeler** - Larken Laboratories, Inc. (149484540)

Revised: 12/2023

Larken Laboratories, Inc.