

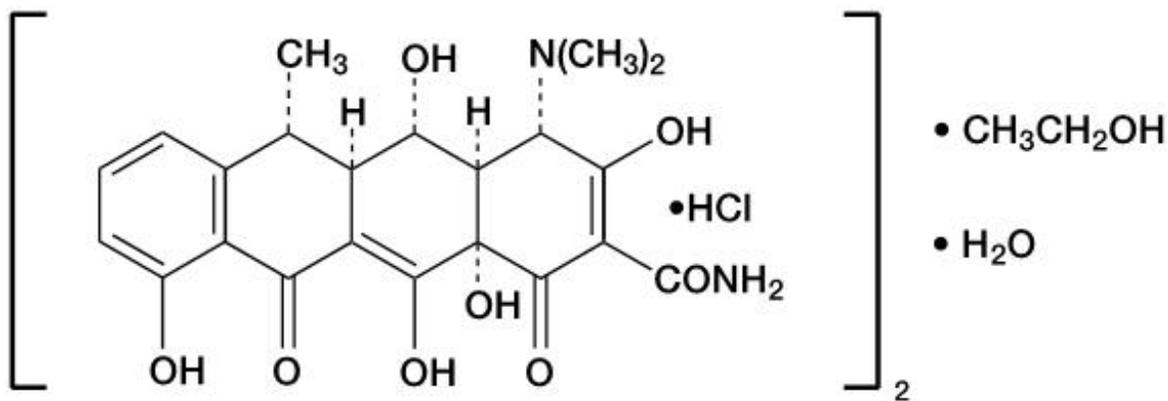
**DOXYCYCLINE HYCLATE- doxycycline hyclate tablet, film coated**  
**Sun Pharmaceutical Industries, Inc.**

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**DOXYCYCLINE HYCLATE TABLETS USP**

**Rx only**

**DESCRIPTION**

Doxycycline hyclate is available as a 20 mg tablet formulation of doxycycline for oral administration. The structural formula of doxycycline hyclate is:



with an empirical 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-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacene-carboxamide monohydrochloride, compound with ethyl alcohol (2:1), monohydrate.

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

Each tablet for oral administration contains 23 mg doxycycline hyclate equivalent to 20 mg of doxycycline. In addition, each tablet contains the following inactive ingredients: anhydrous lactose, carnauba wax, croscarmellose sodium, hypromellose, magnesium stearate, microcrystalline cellulose, polydextrose, polyethylene glycol, titanium dioxide, and triacetin.

**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.

### Susceptibility Testing

For specific information regarding susceptibility test interpretive criteria and associated test methods and quality control standards recognized by FDA for this drug, please see: <https://www.fda.gov/STIC>.

### Pharmacokinetics

The pharmacokinetics of doxycycline following oral administration of doxycycline hyclate 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 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> * (ng/mL)	T <sub>max</sub> † (hr)	CI/F* (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 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

Doxycycline pharmacokinetics have not been evaluated in geriatric patients.

### ***Pediatric***

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<sub>max</sub>) 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), ≥ 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 ≥ 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)**

<b>Parameter</b>	<b>Baseline Pocket Depth</b>		
	<b>0–3 mm</b>	<b>4–6 mm</b>	<b>≥ 7 mm</b>
Number of Patients (Doxycycline Hyclate Tablets 20 mg BID)	90	90	79
Number of Patients (Placebo)	93	93	78
Mean Gain (SD*) in ALv <sup>†</sup>			
Doxycycline Hyclate Tablets 20 mg BID	0.25 (0.29) mm	1.03 (0.47) mm <sup>‡</sup>	1.55 (1.16) mm <sup>‡</sup>

Placebo	0.20 (0.29) mm	0.86 (0.48) mm	1.17 (1.15) mm
Mean Decrease (SD*) in PD <sup>§</sup>			
Doxycycline Hyclate Tablets 20 mg BID	0.16 (0.19) mm <sup>¶</sup>	0.95 (0.47) mm <sup>¶</sup>	1.68 (1.07) mm <sup>¶</sup>
Placebo	0.05 (0.19) mm	0.69 (0.48) mm	1.20 (1.06) mm
% of Sites (SD*) with loss of ALv <sup>†</sup> ≥ 2 mm			
Doxycycline Hyclate Tablets 20 mg BID	1.9 (4.2)%	1.3 (4.5)%	0.3 (9.4)% <sup>‡</sup>
Placebo	2.2 (4.1)%	2.4 (4.4)%	3.6 <sup>l</sup> (9.4)%
% of Sites (SD*) with BOP <sup>#</sup>			
Doxycycline Hyclate Tablets 20 mg BID	39 (19)% <sup>¶</sup>	64 (18)% <sup>‡</sup>	75 (29)%
Placebo	46 (19)%	70 (18)%	80 (29)%

\* SD = Standard Deviation

† ALv = Clinical Attachment Level

‡ p<0.050 vs. the placebo control group.

§ PD = Pocket Depth

¶ p<0.010 vs. the placebo control group.

# BOP = Bleeding on Probing

## INDICATIONS AND USAGE

Doxycycline hyclate is 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.

## 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 an 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**

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

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

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

If superinfection is suspected, appropriate measures should be taken.

## **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 was assessed for potential to induce carcinogenesis in a study in which the compound was administered to Sprague-Dawley rats by gavage at dosages of 20, 75, and 200 mg/kg/day for two years. An increased incidence of uterine polyps was observed in female rats that received 200 mg/kg/day, a dosage that resulted in a systemic exposure to doxycycline approximately nine times that observed in female humans that used doxycycline hyclate (exposure comparison based upon AUC values). No impact upon tumor incidence was observed in male rats at 200 mg/kg/day, or in either

gender at the other dosages studied. 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 for a 60 kg human when compared on the basis of body surface area estimates (mg/m<sup>2</sup>). Although doxycycline impairs the fertility of rats when administered at sufficient dosage, the effect of doxycycline hyclate 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 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).

## **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%)

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

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### ***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.

### **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 hyclate tablets should be taken twice daily at 12 hour intervals, usually in the morning and evening. It is recommended that if doxycycline hyclate tablets are 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 tablets USP equivalent to 20 mg of doxycycline, round, white, unscored, film coated tablet, debossed MP 573 on one side and blank on the other side.

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Bottles of 30	NDC 53489-647-07
Bottles of 60	NDC 53489-647-06
Bottles of 90	NDC 53489-647-90
Bottles of 100	NDC 53489-647-01
Bottles of 250	NDC 53489-647-03
Bottles of 500	NDC 53489-647-05
Bottles of 1000	NDC 53489-647-10

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Store at 20° to 25°C (68° to 77°F).

[See USP Controlled Room Temperature]

DISPENSE IN TIGHT, LIGHT-RESISTANT CONTAINER.

## REFERENCES

1. Golub L.M., Sorsa T., Lee H-M, Ciancio S., Sorbi D., Ramamurthy N.S., Gruber B., Salo T., Kontinen Y.T.: Doxycycline Inhibits Neutrophil (PMN)-type Matrix Metalloproteinases in Human Adult Periodontitis Gingiva. *J. Clin. Periodontol* 1995; 22: 100–109.
2. Golub L.M., Ciancio S., Ramamurthy N.S., Leung M., McNamara T.F.: Low-dose Doxycycline Therapy: Effect on Gingival and Crevicular Fluid Collagenase Activity in Humans. *J. Periodont Res* 1990; 25: 321–330.
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.

Distributed by: Sun Pharmaceutical Industries, Inc.,

Cranbury, NJ 08512

Revised: 12/2018

**Doxycycline 20mg, 100 Tablets (Frontida)**

NDC 53489-647-01

**Doxycycline Hyclate  
Tablets USP**

**20 mg**

Rx Only  
100 Tablets



Each Tablet Contains:  
Doxycycline Hyclate, USP equivalent to  
20 mg of doxycycline.

**USUAL ADULT DOSAGE:** Read package  
outsert for full prescribing information.

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

**DISPENSE IN TIGHT, LIGHT-RESISTANT  
CONTAINER.**

Tablet debossed: MP 573

Rev 02, 06/16

Dist. by: Sun Pharmaceutical Industries, Inc.  
Cranbury, NJ 08512



3 53489 64701 4  
LOT NO.: EXP. DATE:

**Doxycycline 20mg, 100 Tablets (Alkaloida)**

Each Tablet Contains:  
Doxycycline Hyclate,  
USP equivalent to  
20 mg of doxycycline.

NDC 53489-647-01

**Doxycycline Hyclate  
Tablets USP**

**20 mg**

Rx Only  
100 Tablets



**DISPENSE IN TIGHT, LIGHT-  
RESISTANT CONTAINER.**

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

**USUAL ADULT DOSAGE:**  
Read package outsert for  
full prescribing information.

Tablet debossed: MP 573

**Manufactured by:**  
ALKALOIDA  
Chemical Company Zrt.  
4440 Tiszavasvári,  
Kabay János u, 29,  
Hungary EGY-360-1/2

**Distributed by:**  
Sun Pharmaceutical  
Industries, Inc.  
Cranbury, NJ 08512  
Rev.09/17



3 53489 64701 4

**DOXYCYCLINE HYCLATE**

doxycycline hyclate tablet, film coated

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:53489-647
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Route of Administration ORAL

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Doxycycline Hyclate (UNII: 19XTS3T51U) (Doxycycline Anhydrous - UNII:334895S862)	Doxycycline Anhydrous	20 mg

### Inactive Ingredients

Ingredient Name	Strength
anhydrous lactose (UNII: 3SY5LH9PMK)	
carnauba wax (UNII: R12CBM0EIZ)	
croscarmellose sodium (UNII: M28OL1HH48)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
magnesium stearate (UNII: 70097M6B30)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
polydextrose (UNII: VH2XOU12IE)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
titanium dioxide (UNII: 15FIX9V2JP)	
triacetin (UNII: XHX3C3X673)	

### Product Characteristics

Color	WHITE	Score	no score
Shape	ROUND	Size	9mm
Flavor		Imprint Code	MP;573
Contains			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:53489-647-07	30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	05/13/2005	
2	NDC:53489-647-06	60 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	05/13/2005	
3	NDC:53489-647-90	90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	05/13/2005	
4	NDC:53489-647-01	100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	05/13/2005	
5	NDC:53489-647-03	250 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	05/13/2005	
6	NDC:53489-647-05	500 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	05/13/2005	
7	NDC:53489-647-10	1000 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	05/13/2005	

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
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ANDA	ANDA065134	05/13/2005	
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**Labeler** - Sun Pharmaceutical Industries, Inc. (146974886)

**Establishment**

Name	Address	ID/FEI	Business Operations
Frontida BioPharm Inc.		080243260	MANUFACTURE(53489-647) , ANALYSIS(53489-647) , PACK(53489-647)

**Establishment**

Name	Address	ID/FEI	Business Operations
ALKALOIDA chemical company Zrt		643611692	MANUFACTURE(53489-647) , ANALYSIS(53489-647) , PACK(53489-647)

Revised: 2/2019

Sun Pharmaceutical Industries, Inc.