Rx Only

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

DESCRIPTION

Doxycycline is a broad-spectrum antibacterial synthetically derived from oxytetracycline. Doxycycline Tablets USP, 150 mg, 100 mg, 75 mg and 50 mg, contain doxycycline monohydrate equivalent to 150 mg, 100 mg, 75 mg or 50 mg of doxycycline for oral administration. Inactive ingredients include microcrystalline cellulose, anhydrous lactose, corn starch, magnesium stearate, colloidal silicon dioxide, polyvinyl alcohol, polyethylene glycol, talc, titanium dioxide, D&C yellow #10 aluminum lake, and FD&C yellow #6 aluminum lake. The chemical designation of the light-yellow crystalline powder is 4-(Dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacenecarboxamide monohydrate.

Structural formula:

Doxycycline has a high degree of lipid solubility and a low affinity for calcium binding. It is highly stable in normal human serum. Doxycycline will not degrade into an epianhydro form.

CLINICAL PHARMACOLOGY

Tetracyclines are readily absorbed and are bound to plasma proteins in varying degrees. They are concentrated by the liver in the bile and excreted in the urine and feces at high concentrations in a biologically active form. Doxycycline is virtually completely absorbed after oral administration.

Following a 200 mg dose of doxycycline monohydrate, 24 normal adult volunteers averaged the following serum concentration values:

Time (hr):	0.5	1.0	1.5	2.0	3.0	4.0	8.0	12.0	24.0	48.0	72.0
Conc. (mcg/mL):	1.02	2.26	2.67	3.01	3.16	3.03	2.03	1.62	0.95	0.37	0.15

Average Observed Values				
Maximum Concentration	$3.61 \text{ mcg/mL} (\pm 0.9 \text{ sd})$			
Time of Maximum Concentration	$2.60 \text{ hr} (\pm 1.10 \text{ sd})$			
Elimination Rate Constant	$0.049 \text{ per hr } (\pm 0.030 \text{ sd})$			
Half-Life	16.33 hr (± 4.53 sd)			

Excretion of doxycycline by the kidney is about 40%/72 hours in individuals with normal function (creatinine clearance about 75 mL/min). This percentage excretion may fall as low as 1 to 5%/72 hours in individuals with severe renal insufficiency (creatinine clearance below 10 mL/min). Studies have shown no significant difference in serum half-life of doxycycline (range 18 to 22 hours) in individuals with normal and severely impaired renal function.

Hemodialysis does not alter serum half-life.

Population pharmacokinetic analysis of sparse concentration-time data of doxycycline following standard of care intravenous and oral dosing in 44 pediatric patients (2-18 years of age) showed that allometrically -scaled clearance (CL) of doxycycline in pediatric patients \geq 2 to \leq 8 years of age (median [range] 3.58 [2.27-10.82] L/h/70 kg, N=11) did not differ significantly from pediatric patients >8 to 18 years of age (3.27 [1.11-8.12] L/h/70 kg, N=33). For pediatric patients weighing \leq 45 kg, body weight normalized doxycycline CL in those \geq 2 to \leq 8 years of age (median [range] 0.071 [0.041-0.202] L/kg/h, N=10) did not differ significantly from those >8 to 18 years of age (0.081 [0.035-0.126] L/kg/h, N=8). In pediatric patients weighing >45 kg, no clinically significant differences in body weight normalized doxycycline CL were observed between those \geq 2 to \leq 8 years (0.050 L/kg/h, N=1) and those >8 to 18 years of age (0.044 [0.014-0.121] L/kg/h, N=25). No clinically

significant difference in CL between oral and IV dosing was observed in the small cohort of pediatric patients who received the oral (N=19) or IV (N=21) formulation alone.

Microbiology:

Mechanism of Action

Doxycycline inhibits bacterial protein synthesis by binding to the 30S ribosomal subunit. Doxycycline has bacteriostatic activity against a broad range of Gram-positive and Gram-negative bacteria. Cross resistance with other tetracyclines is common.

Resistance

Cross resistance with other tetracyclines is common.

Antimicrobial Activity

Doxycycline has been shown to be active against most isolates of the following microorganisms, both *in vitro* and in clinical infections (see **INDICATIONS AND USAGE**).

Gram-Negative Bacteria:

Acinetobacter species
Bartonella bacilliformis
Brucella species
Campylobacter fetus
Enterobacter aerogenes
Escherichia coli
Francisella tularensis
Haemophilus ducreyi
Haemophilus influenzae

Klebsiella granulomatis Klebsiella species Neisseria gonorrhoeae Shigella species Vibrio cholerae Yersinia pestis

Gram-Positive Bacteria:

Bacillus anthracis Listeria monocytogenes Streptococcus pneumoniae

Anaerobes:

Clostridium species Fusobacterium fusiforme Propionibacterium acnes

Other Bacteria:

Nocardiae and other Actinomyces species
Borrelia recurrentis
Chlamydophila psittaci
Chlamydia trachomatis
Mycoplasma pneumoniae
Rickettsiae
Treponema pallidum
Treponema pallidum subspecies pertenue
Ureaplasma urealyticum

Parasites

Balantidium coli Entamoeba species

Susceptibility Testing Methods

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.

INDICATIONS AND USAGE

To reduce the development of drug-resistant bacteria and maintain the effectiveness of doxycycline tablets, USP and other antibacterial drugs, doxycycline 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.

Doxycycline Tablets, USP are indicated for the treatment of the following infections:

Rocky Mountain spotted fever, typhus fever and the typhus group, O fever, rickettsialpox, and tick fevers caused by *Rickettsiae*.

Respiratory tract infections caused by Mycoplasma pneumoniae.

Lymphogranuloma venereum caused by Chlamydia trachomatis.

Psittacosis (ornithosis) caused by *Chlamydophila psittaci*.

Trachoma caused by *Chlamydia trachomatis*, although the infectious agent is not always eliminated as judged by immunofluorescence.

Inclusion conjunctivitis caused by *Chlamydia trachomatis*.

Uncomplicated urethral, endocervical or rectal infections in adults caused by Chlamydia trachomatis.

Nongonococcal urethritis caused by *Ureaplasma urealyticum*.

Relapsing fever due to *Borrelia recurrentis*.

Doxycycline Tablets, USP are also indicated for the treatment of infections caused by the following gram-negative microorganisms:

Chancroid caused by *Haemophilus ducreyi*.

Plague due to Yersinia pestis.

Tularemia due to Francisella tularensis.

Cholera caused by Vibrio cholerae.

Campylobacter fetus infections caused by Campylobacter fetus.

Brucellosis due to *Brucella* species (in conjunction with streptomycin).

Bartonellosis due to Bartonella bacilliformis.

Granuloma inguinale caused by Klebsiella granulomatis.

Because many strains of the following groups of microorganisms have been shown to be resistant to doxycycline, culture and susceptibility testing are recommended.

Doxycycline Tablets, USP are indicated for treatment of infections caused by the following gram-negative microorganisms, when bacteriologic testing indicates appropriate susceptibility to the drug:

Escherichia coli

Enterobacter aerogenes

Shigella species

Acinetobacter species

Respiratory tract infections caused by Haemophilus influenzae.

Respiratory tract and urinary tract infections caused by Klebsiella species.

Doxycycline Tablets, USP are indicated for treatment of infections caused by the following gram-positive microorganisms, when bacteriologic testing indicates appropriate susceptibility to the drug:

Upper respiratory infections caused by *Streptococcus pneumoniae*.

Anthrax due to *Bacillus anthracis*, including inhalational anthrax (post-exposure); to reduce the incidence or progression of disease following exposure to aerosolized *Bacillus anthracis*.

When penicillin is contraindicated, doxycycline is an alternative drug in the treatment of the following infections:

Uncomplicated gonorrhea caused by *Neisseria gonorrhoeae*.

Syphilis caused by Treponema pallidum subspecies pertenue.

Yaws caused by Treponema pertenue.

Listeriosis due to Listeria monocytogenes.

Vincent's infection caused by Fusobacterium fusiforme.

Actinomycosis caused by Actinomyces israelii.

Infections caused by Clostridium species.

In acute intestinal amebiasis, doxycycline may be a useful adjunct to amebicides.

In severe acne, doxycycline may be useful adjunctive therapy.

CONTRAINDICATIONS

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

WARNINGS

The use of drugs of the tetracycline class, including doxycycline, 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 it has been observed following repeated short-term courses. Enamel hypoplasia has also been reported. Use of doxycycline in pediatric patients 8 years of age or less only when the potential benefits are expected to outweigh the risks in severe or life-threatening conditions (e.g., anthrax, Rocky Mountain spotted fever), particularly when there are no alternative therapies.

Clostridium difficile associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including doxycycline, and may range in severity from mild diarrhea to fatal colitis. Treatment with antibacterial agents alters the normal flora of the colon leading to overgrowth of *C. difficile*.

C. difficile produces toxins A and B which contribute to the development of CDAD. Hypertoxin producing strains of *C. difficile* cause increased morbidity and mortality, as these infections can be refractory to antimicrobial therapy and may require colectomy. CDAD must be considered in all patients who present with diarrhea following antibiotic use. Careful medical history is necessary since CDAD has been reported to occur over two months after the administration of antibacterial agents.

If CDAD is suspected or confirmed, ongoing antibiotic use not directed against *C. difficile* may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibiotic treatment of *C. difficile*, and surgical evaluation should be instituted as clinically indicated.

Intracranial hypertension (IH, pseudotumor cerebri) has been associated with the use of tetracyclines including doxycycline tablets. Clinical manifestations of IH include headache, blurred vision, diplopia, and vision loss; papilledema can be found on fundoscopy. Women of childbearing age who are overweight or have a history of IH are at greater risk for developing tetracycline associated IH. Concomitant use of isotretinoin and doxycycline tablets should be avoided because isotretinoin is also known to cause pseudotumor cerebri.

Although IH typically resolves after discontinuation of treatment, the possibility for permanent visual loss exists. If visual disturbance occurs during treatment, prompt ophthalmologic evaluation is warranted. Since intracranial pressure can remain elevated for weeks after drug cessation patients should be monitored until they stabilize.

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

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 embryo toxicity has been noted in animals treated early in pregnancy. If any tetracycline is used during pregnancy or if the patient becomes pregnant while taking these drugs, the patient should be apprised of the potential hazard to the fetus.

The antianabolic action of the tetracyclines may cause an increase in BUN. Studies to date indicate that this does not occur 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: As with other antibacterial preparations, use of this drug may result in overgrowth of non-susceptible organisms, including fungi. If superinfection occurs, doxycycline tablets should be discontinued and appropriate therapy instituted.

Incision and drainage or other surgical procedures should be performed in conjunction with antibacterial therapy when indicated.

Prescribing doxycycline tablets 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.

Information for Patients

All patients taking doxycycline should be advised:

- -to avoid excessive sunlight or artificial ultraviolet light while receiving doxycycline and to discontinue therapy if phototoxicity (e.g., skin eruptions, etc.) occurs. Sunscreen or sunblock should be considered. (See WARNINGS.)
 - -to drink fluids liberally along with doxycycline to reduce the risk of esophageal irritation and ulceration. (See ADVERSE REACTIONS.)
- -that the absorption of tetracyclines is reduced when taken with foods, especially those which contain calcium. However, the absorption of doxycycline is not markedly influenced by simultaneous ingestion of food or milk. (See **Drug Interactions.**)
 - -that the absorption of tetracyclines is reduced when taking bismuth subsalicylate. (See **Drug Interactions.**)
 - -not to use outdated or poorly stored doxycycline.
 - -that the use of doxycycline might increase the incidence of vaginal candidiasis.

Diarrhea is a common problem caused by antibiotics which usually ends when the antibiotic is discontinued. Sometimes after starting treatment with antibiotics, patients can develop watery and bloody stools (with or without stomach cramps and fever) even as late as two or more months after having taken the last dose of the antibiotic. If this occurs, patients should contact their physician as soon as possible.

Patients should be counseled that antibacterial drugs including doxycycline tablets should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When doxycycline tablets 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 tablets or other antibacterial drugs in the future.

Laboratory Tests

In venereal disease when coexistent syphilis is suspected, a dark-field examination should be done before treatment is started and the blood serology repeated monthly for at least four months.

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 bacteriostatic drugs may interfere with the bactericidal action of penicillin, it is advisable to avoid giving tetracyclines in conjunction with penicillin.

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

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 tetracycline 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

Long-term studies in animals to evaluate the carcinogenic potential of doxycycline have not been conducted.

However, there has been evidence of oncogenic activity in rats in studies with related antibacterial, oxytetracycline (adrenal and pituitary tumors) and minocycline (thyroid tumors). Likewise, although mutagenicity studies of doxycycline have not been conducted, positive results in *in vitro* mammalian cell assays have been reported for related antibacterial (tetracycline, oxytetracycline). Doxycycline administered orally at dosage levels as high as 250 mg/kg/day had no apparent effect on the fertility of female rats. Effect on male fertility has not been studied.

Pregnancy:

Teratogenic Effects.

Pregnancy Category D

There are no adequate and well-controlled studies on the use of doxycycline in pregnant short-term, first trimester exposure. There are no human data available to assess the effects of long-term therapy of doxycycline in pregnant women such as that proposed for treatment of anthrax exposure. An expert review of published data on experiences with doxycycline use during pregnancy by TERIS-the Teratogen Information System-concluded that therapeutic doses during pregnancy are unlikely to pose a substantial teratogenic risk (the quantity and quality of data were assessed as limited to fair), but the data are insufficient to state that there is no risk.¹

A case-control study (18,515 mothers of infants with congenital anomalies and 32,804 mothers of infants with no congenital anomalies) shows a weak but marginally statistically significant association with total malformations and use of doxycycline anytime during pregnancy. (Sixty-three (0.19%) of the controls and 56 (0.30%) of the cases were treated with doxycycline.) This association was not seen when the analysis was confined to maternal treatment during the period of organogenesis (i.e., in the second and third months of gestation) with the exception of a marginal relationship with neural tube defect based on only two exposed cases.²

A small prospective study of 81 pregnancies describes 43 pregnant women treated for 10 days with doxycycline during early first trimester. All mothers reported their exposed infants were normal at 1 year of age.³

Labor and Delivery

The effect of tetracyclines on labor and delivery is unknown.

Nursing Mothers

Tetracyclines are excreted in human milk, however, the extent of absorption of tetracyclines, including doxycycline, by the breastfed infant is not known. Short-term use by lactating women is not necessarily contraindicated; however, the effects of prolonged exposure to doxycycline in breast milk are unknown.⁴ Because of the potential for adverse reactions in nursing infants from doxycycline, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. (See WARNINGS.)

Pediatric Use

Because of the effects of drugs of the tetracycline-class, on tooth development and growth, use doxycycline in pediatric patients 8 years of age or less only when the potential benefits are expected to outweigh the risks in severe life-threatening conditions (e.g., anthrax, Rocky mountain spotted fever), particularly when there are no alternative therapies (See WARNINGS and DOSAGE AND ADMINISTRATION).

ADVERSE REACTIONS

Due to oral doxycycline's virtually complete absorption, side effects to the lower bowel, particularly diarrhea, have been infrequent. The following adverse reactions have been observed in patients receiving tetracyclines.

Gastrointestinal: Anorexia, nausea, vomiting, diarrhea, glossitis, dysphagia, enterocolitis, and inflammatory lesions (with monilial overgrowth) in the anogenital region, and pancreatitis. Hepatotoxicity has been reported. These reactions have been caused by both the oral

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

Skin: Maculopapular and erythematous rashes. Stevens-Johnson syndrome, toxic epidermal necrolysis and erythema multiforme have been reported. Exfoliative dermatitis has been reported but is uncommon. Photosensitivity is discussed above. (See WARNINGS.)

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

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 with tetracyclines.

Other: Intracranial hypertension (IH, pseudotumor cerebri) has been associated with the use of tetracyclines. (See PRECAUTIONS – General.)

When given over prolonged periods, tetracyclines have been reported to produce brown-black microscopic discoloration of the thyroid gland. No abnormalities of thyroid function are known to occur.

OVERDOSAGE

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

DOSAGE AND ADMINISTRATION

THE USUAL DOSAGE AND FREQUENCY OF ADMINISTRATION OF DOXYCYCLINE DIFFERS FROM THAT OF THE OTHER TETRACYCLINES. EXCEEDING THE RECOMMENDED DOSAGE MAY RESULT IN AN INCREASED INCIDENCE OF SIDE EFFECTS.

Adults: The usual dose of oral doxycycline is 200 mg on the first day of treatment (administered 100 mg every 12 hours or 50 mg every 6 hours) followed by a maintenance dose of 100 mg/day. The maintenance dose may be administered as a single dose or as 50 mg every 12 hours. In the management of more severe infections (particularly chronic infections of the urinary tract), 100 mg every 12 hours is recommended.

Pediatric Patients:

For all pediatric patients weighing less than 45 kg with severe or life-threatening infections (e.g., anthrax, Rocky Mountain spotted fever), the recommended dosage is 2.2 mg/kg of body weight administered every 12 hours. Children weighing 45 kg or more should receive the adult dose (see WARNINGS and PRECAUTIONS).

For pediatric patients with less severe disease (greater than 8 years of age and weighing less than 45 kg), the recommended dosage schedule is 4.4 mg/kg of body weight divided into two doses on the first day of treatment, followed by a maintenance dose of 2.2 mg/kg of body weight (given as a single daily dose or divided into twice daily doses). For pediatric patients weighing over 45 kg, the usual adult dose should be used.

The therapeutic antibacterial serum activity will usually persist for 24 hours following recommended dosage.

When used in streptococcal infections, therapy should be continued for 10 days.

Administration of adequate amounts of fluid along with capsule and tablet forms of drugs in the tetracycline class is recommended to wash down the drugs and reduce the risk of esophageal irritation and ulceration (see **ADVERSE REACTIONS**).

If gastric irritation occurs, it is recommended that doxycycline be given with food or milk. The absorption of doxycycline is not markedly influenced by simultaneous ingestion of food or milk.

Studies to date have indicated that administration of doxycycline at the usual recommended doses does not lead to excessive accumulation of doxycycline in patients with renal impairment.

Uncomplicated gonococcal infections in adults (except anorectal infections in men): 100 mg, by mouth, twice a day for 7 days. As an alternate single visit dose, administer 300 mg stat followed in one hour by a second 300 mg dose.

Acute epididymo-orchitis caused by N. gonorrhoeae: 100 mg, by mouth, twice a day for at least 10 days.

Primary and secondary syphilis: 300 mg a day in divided doses for at least 10 days.

Uncomplicated urethral, endocervical, or rectal infection in adults caused by *Chlamydia trachomatis:* 100 mg, by mouth, twice a day for at least 7 days.

Nongonococcal urethritis caused by C. trachomatis and U. urealyticum: 100 mg, by mouth, twice a day for at least 7 days.

Acute epididymo-orchitis caused by C. trachomatis: 100 mg, by mouth, twice a day for at least 10 days.

Inhalational anthrax (post-exposure):

ADULTS: 100 mg of doxycycline, by mouth, twice a day for 60 days.

CHILDREN: weighing less than 45 kg 2.2 mg/kg of body weight, by mouth, twice a day for 60 days. Children weighing 45 kg or more should receive the adult dose.

When used in streptococcal infections, therapy should be continued for 10 days.

Administration of adequate amounts of fluid along with capsule and tablet forms of drugs in the tetracycline class is recommended to wash down the drugs and reduce the risk of esophageal irritation and ulceration. (See **ADVERSE REACTIONS.**) If gastric irritation occurs, doxycycline may be given with food. Ingestion of a high fat meal has been shown to delay the time to peak plasma concentrations by an average of one hour and 20 minutes. However, in the same study, food enhanced the average peak concentration by 7.5% and the area under the curve by 5.7%.

HOW SUPPLIED

Doxycycline Tablets USP, 50 mg are yellow, round, film coated, tablets, debossed "LCI" on one face and "1335" on the other face. Each tablet contains doxycycline monohydrate equivalent to 50 mg of doxycycline. They are supplied as follows:

Bottles of 100 NDC 0527-1335-01

Doxycycline Tablets USP, 75 mg are yellow, round, film coated, tablets, debossed "LCI" on one face and "1535" on the other face. Each tablet contains doxycycline monohydrate equivalent to 75 mg of doxycycline. They are supplied as follows:

Bottles of 100 NDC 0527-1535-01

Doxycycline Tablets USP, 100 mg are yellow, film coated, caplets, debossed "LCI" on one face and "1338" on the other face. Each tablet contains doxycycline monohydrate equivalent to 100 mg of doxycycline. They are supplied as follows:

Bottles of 50 NDC 0527-1338-50 Bottles of 250 NDC 0527-1338-25

Doxycycline Tablets USP, 150 mg are yellow, round, film coated, tablets, debossed "LCI" on one face and "1537" on the other face. Each tablet contains doxycycline monohydrate equivalent to 150 mg of doxycycline. They are supplied as follows:

Bottles of 30 NDC 0527-1537-30 Bottles of 100 NDC 0527-1537-01

Dispense in a tight light-resistant container with a child-resistant closure.

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

PROTECT FROM LIGHT.

ANIMAL PHARMACOLOGY AND ANIMAL TOXICOLOGY

Hyperpigmentation of the thyroid has been produced by members of the tetracycline class in the following species: in rats by oxytetracycline, doxycycline, tetracycline PO₄, and methacycline; in minipigs by doxycycline, minocycline, tetracycline PO₄, and methacycline; in dogs by doxycycline and minocycline; in monkeys by minocycline.

Minocycline, tetracycline PO₄, methacycline, doxycycline, tetracycline base, oxytetracycline HCl and tetracycline HCl were goitrogenic in rats fed a low iodine diet. This goitrogenic effect was accompanied by high radioactive iodine uptake. Administration of minocycline also produced a large goiter with high radioiodine uptake in rats fed a relatively high iodine diet.

Treatment of various animal species with this class of drugs has also resulted in the induction of thyroid hyperplasia in the following: in rats and dogs (minocycline), in chickens (chlortetracycline) and in rats and mice (oxytetracycline). Adrenal gland hyperplasia has been observed in goats and rats treated with oxytetracycline.

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- 4. Hale T. Medications and Mothers Milk. 9th edition. Amarillo, TX: Pharmasoft Publishing 2000; 225-226.

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PRINCIPAL DISPLAY PANEL — 50 mg Tablets

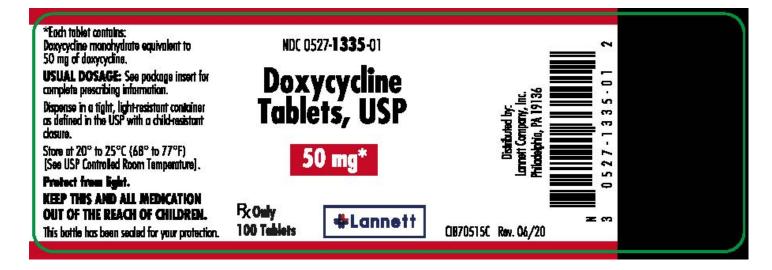
NDC 0527-1335-01

Doxycycline Tablets, USP 50 mg*

Rx Only

100 Tablets

Lannett



PRINCIPAL DISPLAY PANEL — 75 mg Tablets

NDC 0527-1535-01

Doxycycline Tablets, USP

75 mg*

Rx Only

100 Tablets

Lannett



PRINCIPAL DISPLAY PANEL — 100 mg Tablets

NDC 0527-1338-50

Doxycycline Tablets, USP

100 mg*

Rx Only

50 Tablets

Lannett



PRINCIPAL DISPLAY PANEL — 150 mg Tablets

NDC 0527-1537-30

Doxycycline

Tablets, USP

150 mg*

Rx Only

30 Tablets

Lannett



DOXYCYCLINE doxycycline tablet, film coated **Product Information Product Type** HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:0527-1335 Route of Administration ORAL Active Ingredient/Active Moiety Ingredient Name **Basis of Strength** Strength DOXYCYCLINE (UNII: N12000U13O) (DOXYCYCLINE ANHYDROUS - UNII:334895S862) DOXYCYCLINE ANHYDROUS 50 mg

Inactive Ingredients	T	gradient Nama		Stunnath
CELLILIOSE MICDOCOVSTAL		gredient Name		Strength
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U) ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)				
STARCH, CORN (UNII: O8232NY	· · · · · · · · · · · · · · · · · · ·			
MAGNESIUM STEARATE (UNII				
SILICON DIOXIDE (UNII: ETJ72	Z6XBU4)			
POLYVINYL ALCOHOL, UNSP	ECIFIED (UNII: 532B59J990)			
POLYETHYLENE GLYCOL, UN	SPECIFIED (UNII: 3WJQ0SDW1A)			
TALC (UNII: 7SEV7J4R1U)				
TITANIUM DIOXIDE (UNII: 15F	IX9V2JP)			
D&C YELLOW NO. 10 (UNII: 35				
FD&C YELLOW NO. 6 (UNII: H?				
ALUMINUM OXIDE (UNII: LMI	2000933)			
Product Characteristics				
Color	YELLOW	Score	no sc	ore
Shape	ROUND	Size	8mm	
Flavor		Imprint Code	LCI;1	1335
Contains				
Packaging				
Item Code	Package D	Description	Marketing Start Date	Marketing End Date
NDC:0527-1335-01 100	in 1 BOTTLE, PLASTIC; Type 0: Not a	•	12/08/2005	
Marketing Category		or Monograph Citation	Marketing Start Date	Marketing End Date
Marketing Category ANDA	Application Number of	or Monograph Citation	_	Marketing End Date
Marketing Category ANDA DOXYCYCLINE	Application Number of ANDA065285	or Monograph Citation	_	Marketing End Date
Marketing Category ANDA OOXYCYCLINE	Application Number of ANDA065285	or Monograph Citation	_	Marketing End Date
Marketing Category ANDA OOXYCYCLINE oxycycline tablet, film coate	Application Number of ANDA065285	or Monograph Citation	_	Marketing End Date
Marketing Category ANDA OOXYCYCLINE oxycycline tablet, film coate Product Information	Application Number of ANDA065285		_	Marketing End Date NDC:0527-1535
Marketing Category ANDA OOXYCYCLINE oxycycline tablet, film coate Product Information Product Type	Application Number of ANDA065285		12/08/2005	
Marketing Category ANDA OOXYCYCLINE oxycycline tablet, film coate Product Information Product Type	Application Number of ANDA065285		12/08/2005	
Marketing Category ANDA DOXYCYCLINE oxycycline tablet, film coate Product Information Product Type Route of Administration	Application Number of ANDA065285 ed HUMAN PRESC ORAL		Item Code (Source)	NDC:0527-1535
Marketing Category ANDA DOXYCYCLINE oxycycline tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active	Application Number of ANDA065285 ed HUMAN PRESC ORAL Moiety Ingredient Name	RIPTION DRUG	Item Code (Source) Basis of Str	NDC:0527-1535
Marketing Category ANDA DOXYCYCLINE oxycycline tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active	Application Number of ANDA065285 ed HUMAN PRESC ORAL	RIPTION DRUG	Item Code (Source)	NDC:0527-1535
Marketing Category NDA DOXYCYCLINE Expression tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active	Application Number of ANDA065285 ed HUMAN PRESC ORAL Moiety Ingredient Name	RIPTION DRUG	Item Code (Source) Basis of Str	NDC:0527-1535
Marketing Category ANDA DOXYCYCLINE Oxycycline tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active DOXYCYCLINE (UNII: N120000	Application Number of ANDA065285 ad HUMAN PRESCORAL Moiety Ingredient Name 1130) (DOXYCYCLINE ANHYDROUS	RIPTION DRUG	Item Code (Source) Basis of Str	NDC:0527-1535
Marketing Category ANDA DOXYCYCLINE Expression tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active DOXYCYCLINE (UNII: N12000U	Application Number of ANDA065285 ed HUMAN PRESC ORAL Moiety Ingredient Name 1130) (DOXYCYCLINE ANHYDROUS	- UNII:334895S862)	Item Code (Source) Basis of Str	NDC:0527-1535 rength Stren DROUS 75 mg
Marketing Category ANDA DOXYCYCLINE OXYCYCLINE OXYCYCLINE (Ilm coate Product Information Product Type Route of Administration Active Ingredient/Active DOXYCYCLINE (UNII: N12000U Inactive Ingredients CELLULOSE, MICROCRYSTAI	Application Number of ANDA065285 ed HUMAN PRESC ORAL Moiety Ingredient Name 1130) (DOXYCYCLINE ANHYDROUS In LLINE (UNII: OP1R32D61U)	- UNII:334895S862)	Item Code (Source) Basis of Str	NDC:0527-1535 rength Strength DROUS 75 mg
Marketing Category ANDA DOXYCYCLINE Oxycycline tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active DOXYCYCLINE (UNII: N12000U Inactive Ingredients CELLULOSE, MICROCRYSTAL ANHYDROUS LACTOSE (UNII: STARCH, CORN (UNII: 08232N)	Application Number of ANDA065285 and HUMAN PRESCORAL Moiety Ingredient Name U130) (DOXYCYCLINE ANHYDROUS In LLINE (UNII: OP1R32D61U) 3SY5LH9PMK) (73SJ)	- UNII:334895S862)	Item Code (Source) Basis of Str	NDC:0527-1535 rength Strength DROUS 75 mg
Marketing Category ANDA DOXYCYCLINE Oxycycline tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active DOXYCYCLINE (UNII: N12000U Inactive Ingredients CELLULOSE, MICROCRYSTAI ANHYDROUS LACTOSE (UNII: STARCH, CORN (UNII: O8232N) MAGNESIUM STEARATE (UNII	Application Number of ANDA065285 and HUMAN PRESCORAL Moiety Ingredient Name Place (UNII: OPIR32D61U) 3SY5LH9PMK) Place (UNII: OPIR32D61U) 3SY5LH9PMK) Place (UNII: OPIR32D61U)	- UNII:334895S862)	Item Code (Source) Basis of Str	NDC:0527-1535 rength Strength DROUS 75 mg
Marketing Category ANDA DOXYCYCLINE loxycycline tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active DOXYCYCLINE (UNII: N12000U Inactive Ingredients CELLULOSE, MICROCRYSTAI ANHYDROUS LACTOSE (UNII: STARCH, CORN (UNII: O8232NY MAGNESIUM STEARATE (UNII: SILICON DIOXIDE (UNII: ETJ77	Application Number of ANDA065285 and HUMAN PRESCORAL Moiety Ingredient Name Place (Ingredient Name ANDA06520) (DOXYCYCLINE ANHYDROUS) Ingredient Name Place (UNII: OPIR32D61U) Place (UNII: OPIR3	- UNII:334895S862)	Item Code (Source) Basis of Str	NDC:0527-1535 rength Streng DROUS 75 mg
Marketing Category ANDA DOXYCYCLINE loxycycline tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active DOXYCYCLINE (UNII: N12000U Inactive Ingredients CELLULOSE, MICROCRYSTAI ANHYDROUS LACTOSE (UNII: STARCH, CORN (UNII: O8232NN MAGNESIUM STEARATE (UNIII SILICON DIOXIDE (UNII: ETJ77 POLYVINYL ALCOHOL, UNSPI	Application Number of ANDA065285 and HUMAN PRESCON ORAL Moiety Ingredient Name (130) (DOXYCYCLINE ANHYDROUS) In LLINE (UNII: OPIR32D61U) 3SY5LH9PMK) (3SJ) 1: 70097M6130) 26XBU4) ECIFIED (UNII: 532B59J990)	- UNII:334895S862)	Item Code (Source) Basis of Str	NDC:0527-1535 rength Streng DROUS 75 mg
Marketing Category ANDA DOXYCYCLINE loxycycline tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active DOXYCYCLINE (UNII: N12000U Inactive Ingredients CELLULOSE, MICROCRYSTAI ANHYDROUS LACTOSE (UNII: STARCH, CORN (UNII: 08232NY MAGNESIUM STEARATE (UNIII: STARCH, CORN (UNII: ETJ72 POLYVINYL ALCOHOL, UNSPIPOLYETHYLENE GLYCOL, UN	Application Number of ANDA065285 and HUMAN PRESCORAL Moiety Ingredient Name Place (Ingredient Name ANDA06520) (DOXYCYCLINE ANHYDROUS) Ingredient Name Place (UNII: OPIR32D61U) Place (UNII: OPIR3	- UNII:334895S862)	Item Code (Source) Basis of Str	NDC:0527-1535 rength Streng DROUS 75 mg
Marketing Category ANDA DOXYCYCLINE loxycycline tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active DOXYCYCLINE (UNII: N12000U Inactive Ingredients CELLULOSE, MICROCRYSTAL ANHYDROUS LACTOSE (UNII: STARCH, CORN (UNII: 08232NY) MAGNESIUM STEARATE (UNII: STARCH, CORN (UNII: ETJ72 POLYVINYL ALCOHOL, UNSPIPOLYETHYLENE GLYCOL, UN TALC (UNII: 7SEV7J4R1U)	Application Number of ANDA065285 and HUMAN PRESCORAL Moiety Ingredient Name Place (Ingredient Name Place) (DOXYCYCLINE ANHYDROUS) In LLINE (UNII: OP1R32D61U) 3SY5LH9PMK) (73SJ) 10: 70097M6130) 10: 70097M6130) 10: 26XBU4) 10: ECIFIED (UNII: 532B59J990) 10: SPECIFIED (UNII: 3WJQ0SDW1A)	- UNII:334895S862)	Item Code (Source) Basis of Str	NDC:0527-1535 rength Strength DROUS 75 mg
DOXYCYCLINE doxycycline tablet, film coate Product Information Product Type Route of Administration Active Ingredient/Active DOXYCYCLINE (UNII: N12000U Inactive Ingredients CELLULOSE, MICROCRYSTAI ANHYDROUS LACTOSE (UNII: STARCH, CORN (UNII: O8232NN) MAGNESIUM STEARATE (UNIII) SILICON DIOXIDE (UNII: ETJ77 POLYVINYL ALCOHOL, UNSPI	Application Number of ANDA065285 ad HUMAN PRESC ORAL Moiety Ingredient Name Place (Ingredient Name of Andron (Ingredient Name	- UNII:334895S862)	Item Code (Source) Basis of Str	NDC:0527-1535 rength Streng DROUS 75 mg

ALUMINUM OXIDE (UNII:	LMI26O6933)					
Product Characteristi	ice					
Color	YELLOW	İ	Score	no sc	ora	I
Shape	ROUND		Size	9mm		
Flavor	ROUND		Imprint Code	LCI;1535		
Contains			Impilit code		1555	
Packaging						
# Item Code		Package Description		Marketing Start Date	Marke	ting End Date
1 NDC:0527-1535-01	100 in 1 BOTTLE, PLAS	TIC; Type 0: Not a Combination	Product	08/25/2008		
Marketing Inform	ation					
Marketing Category	Appl	lication Number or Monograp	ph Citation	Marketing Start Date	Market	ing End Date
ANDA	ANDA065285		08	2/25/2008		
DOXYCYCLINE						
doxycycline tablet, film c	ontad					
doxycycline tablet, illii c	oaieu					
Product Information						
Product Type		HUMAN PRESCRIPTION DR	RUG	Item Code (Source)	NDC:052	7-1338
Route of Administration		ORAL				
A . 4° . T 1° 4/A . 4	· . Mr. ·					
Active Ingredient/Act	ive Moietv					
Trees, e rings eurene, rree						
-	Iı	ngredient Name		Basis of Str		Strength
-	Iı	ngredient Name NE ANHYDROUS - UNII:33489	95\$862)	Basis of Str DOXYCYCLINE ANHY		Strength 100 mg
-	Iı	_	95S862)			_
DOXYCYCLINE (UNII: N12	Iı	_	95S862)			_
-	Iı	NE ANHYDROUS - UNII:33489				100 mg
DOXYCYCLINE (UNII: N12) Inactive Ingredients	II 000U13O) (DOXYCYCLII	NE ANHYDROUS - UNII:33489 Ingredient Na				_
DOXYCYCLINE (UNII: N12	II 000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3	NE ANHYDROUS - UNII:33489 Ingredient Na		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS	II 000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK)	NE ANHYDROUS - UNII:33489 Ingredient Na		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U	II 0000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ)	NE ANHYDROUS - UNII:33489 Ingredient Na		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082:	II 000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I3O)	NE ANHYDROUS - UNII:33489 Ingredient Na		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U	II 000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I3O) CTJ7Z6XBU4) NSPECIFIED (UNII: 532I	Ingredient Na 2D61U) B59J990)		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL	II 000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I3O) CTJ7Z6XBU4) NSPECIFIED (UNII: 532I	Ingredient Na 2D61U) B59J990)		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U)	II 000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 UNII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I3O) CTJ7Z6XBU4) NSPECIFIED (UNII: 532I L, UNSPECIFIED (UNII: 3	Ingredient Na 2D61U) B59J990)		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII:	II 000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M613O) ETJ7Z6XBU4) NSPECIFIED (UNII: 532I " UNSPECIFIED (UNII: 532I " UNIII (UN	Ingredient Na 2D61U) B59J990)		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, UI POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNI	II 000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M613O) ETJ7Z6XBU4) NSPECIFIED (UNII: 532I ", UNSPECIFIED (UNII: 532I II: 15FIX9V2JP) II: 35SW5USQ3G)	Ingredient Na 2D61U) B59J990)		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII:	II 0000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I3O) ETJ7Z6XBU4) NSPECIFIED (UNII: 532I ", UNSPECIFIED (UNII: 3 ETSFIX9V2JP) II: 35SW5USQ3G) III: H77VEI93A8)	Ingredient Na 2D61U) B59J990)		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, UI POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNII FD&C YELLOW NO. 6 (UNII: FD&C YELLOW NO. 6 (UNII: NII)	II 0000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I3O) ETJ7Z6XBU4) NSPECIFIED (UNII: 532I ", UNSPECIFIED (UNII: 3 ETSFIX9V2JP) II: 35SW5USQ3G) III: H77VEI93A8)	Ingredient Na 2D61U) B59J990)		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNI FD&C YELLOW NO. 6 (UNI ALUMINUM OXIDE (UNII:	II 0000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M613O) ETJ7Z6XBU4) NSPECIFIED (UNII: 532I ", UNSPECIFIED (UNII: 3 E 15FIX9V2JP) II: 35SW5USQ3G) III: H77VE193A8) LMI26O6933)	Ingredient Na 2D61U) B59J990)		The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082) MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNII FD&C YELLOW NO. 6 (UNII ALUMINUM OXIDE (UNII: C) Product Characteristi	II 0000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I3O) ETJ7Z6XBU4) NSPECIFIED (UNII: 532I ", UNSPECIFIED (UNII: 532I I: 15FIX9V2JP) II: 35SW5USQ3G) II: H77VEI93A8) LMI26O6933)	Ingredient Na 2D61U) B59J990)	ame	The second secon		100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNI FD&C YELLOW NO. 6 (UNI ALUMINUM OXIDE (UNII: Product Characteristicolor	STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I30) ETJ7Z6XBU4) NSPECIFIED (UNII: 5321 L, UNSPECIFIED (UNII: 3 E15FIX9V2JP) II: 35SW5USQ3G) II: H77VEI93A8) LMI26O6933) ICS YELLOW	Ingredient Na 2D61U) B59J990)	Score	DOXYCYCLINE ANHYL	DROUS	100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNII FD&C YELLOW NO. 6 (UNII ALUMINUM OXIDE (UNII: Product Characteristi Color Shape	II 0000U13O) (DOXYCYCLII STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I3O) ETJ7Z6XBU4) NSPECIFIED (UNII: 532I ", UNSPECIFIED (UNII: 532I I: 15FIX9V2JP) II: 35SW5USQ3G) II: H77VEI93A8) LMI26O6933)	Ingredient Na 2D61U) B59J990)	Score Size	DOXYCYCLINE ANHYL	DROUS	100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNII FD&C YELLOW NO. 6 (UNII ALUMINUM OXIDE (UNII: Product Characteristi Color Shape Flavor	STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I30) ETJ7Z6XBU4) NSPECIFIED (UNII: 5321 L, UNSPECIFIED (UNII: 3 E15FIX9V2JP) II: 35SW5USQ3G) II: H77VEI93A8) LMI26O6933) ICS YELLOW	Ingredient Na 2D61U) B59J990)	Score	DOXYCYCLINE ANHYL	DROUS	100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNII FD&C YELLOW NO. 6 (UNII ALUMINUM OXIDE (UNII: Product Characteristi Color Shape	STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I30) ETJ7Z6XBU4) NSPECIFIED (UNII: 5321 L, UNSPECIFIED (UNII: 3 E15FIX9V2JP) II: 35SW5USQ3G) II: H77VEI93A8) LMI26O6933) ICS YELLOW	Ingredient Na 2D61U) B59J990)	Score Size	DOXYCYCLINE ANHYL	DROUS	100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNII FD&C YELLOW NO. 6 (UNII ALUMINUM OXIDE (UNII: Product Characteristi Color Shape Flavor	STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I30) ETJ7Z6XBU4) NSPECIFIED (UNII: 5321 L, UNSPECIFIED (UNII: 3 E15FIX9V2JP) II: 35SW5USQ3G) II: H77VEI93A8) LMI26O6933) ICS YELLOW	Ingredient Na 2D61U) B59J990)	Score Size	DOXYCYCLINE ANHYL	DROUS	100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, UI POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNII FD&C YELLOW NO. 6 (UNII ALUMINUM OXIDE (UNII: Color Shape Flavor Contains	STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I30) ETJ7Z6XBU4) NSPECIFIED (UNII: 5321 L, UNSPECIFIED (UNII: 3 E15FIX9V2JP) II: 35SW5USQ3G) II: H77VEI93A8) LMI26O6933) ICS YELLOW	Ingredient Na 2D61U) B59J990)	Score Size	DOXYCYCLINE ANHYL	DROUS	100 mg
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082) MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, U POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNII FD&C YELLOW NO. 6 (UNII ALUMINUM OXIDE (UNII: Color Shape Flavor Contains	STALLINE (UNII: OP1R3 INII: 3SY5LH9PMK) 32NY3SJ) UNII: 70097M6I30) ETJ7Z6XBU4) NSPECIFIED (UNII: 5321 L, UNSPECIFIED (UNII: 3 E15FIX9V2JP) II: 35SW5USQ3G) III: H77VEI93A8) LMI26O6933) ICS YELLOW	Ingredient Na 2D61U) B59J990) 3WJQ0SDW1A)	Score Size	DOXYCYCLINE ANHYO	DROUS DROUS	Strength
Inactive Ingredients CELLULOSE, MICROCRYS ANHYDROUS LACTOSE (U STARCH, CORN (UNII: 082: MAGNESIUM STEARATE (SILICON DIOXIDE (UNII: E POLYVINYL ALCOHOL, UI POLYETHYLENE GLYCOL TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: D&C YELLOW NO. 10 (UNII FD&C YELLOW NO. 6 (UNII ALUMINUM OXIDE (UNII: Color Shape Flavor Contains	II	Ingredient Na 2D61U) B59J990)	Score Size Imprint Code	DOXYCYCLINE ANHYL	DROUS DROUS	100 mg

Marketing Information Marketing Category Application Number or Monograph Citation Marketing Start Date ANDA ANDA065285 12/08/2005 Marketing End Date

DOXYCYCLINE doxycycline tablet, film coated **Product Information Product Type** HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:0527-1537 Route of Administration ORAL **Active Ingredient/Active Moiety** Strength **Ingredient Name Basis of Strength** DOXYCYCLINE (UNII: N12000U13O) (DOXYCYCLINE ANHYDROUS - UNII:334895S862) DOXYCYCLINE ANHYDROUS 150 mg **Inactive Ingredients** Strength **Ingredient Name** CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U) ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK) STARCH, CORN (UNII: O8232NY3SJ) MAGNESIUM STEARATE (UNII: 70097M6I30) SILICON DIOXIDE (UNII: ETJ7Z6XBU4) POLYVINYL ALCOHOL, UNSPECIFIED (UNII: 532B59J990) POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A) TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: 15FIX9V2JP) D&C YELLOW NO. 10 (UNII: 35SW5USQ3G) FD&C YELLOW NO. 6 (UNII: H77VEI93A8) ALUMINUM OXIDE (UNII: LMI26O6933) **Product Characteristics** Color YELLOW Score no score Shape ROUND Size 11mm Flavor **Imprint Code** LCI;1537 Contains

Packaging

;	# Item Code	Package Description	Marketing Start Date	Marketing End Date
	NDC:0527-1537-30	30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	08/25/2008	
	NDC:0527-1537-01	100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	08/25/2008	

Marketing Information

	Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
	ANDA	ANDA065285	08/25/2008	
-15				

Labeler - Lannett Company, Inc. (002277481)

Establishment

Name	Address	ID/FEI	Business Operations
Lannett Company, Inc.		829757603	ANALYSIS(0527-1335, 0527-1535, 0527-1338, 0527-1537)

Establishment

Name	Address	ID/FEI	Business Operations
Lannett Company, Inc.		006422406	LABEL(0527-1335, 0527-1535, 0527-1535, 0527-1535, 0527-1537), MANUFACTURE(0527-1335, 0527-1535, 0527-1535, 0527-1537), PACK(0527-1335, 0527-1535, 0527-1535, 0527-1535), RELABEL(0527-1335, 0527-1535, 0527-1537), RELABEL(0527-1335, 0527-1535, 0527-1537), REPACK(0527-1335, 0527-1537)

Revised: 6/2020 Lannett Company, Inc.