

**CENTER FOR DRUG
EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

65-156

FINAL PRINTED LABELING

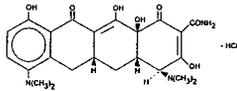
MINOCYCLINE HYDROCHLORIDE TABLETS, USP

Rx only

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

DESCRIPTION

Minocycline hydrochloride, a semisynthetic derivative of tetracycline is 4,7-Bis(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,10,12,12a-tetrahydroxy-1,11-dioxo-2-naphthacene-carboxamide monohydrochloride. Its structural formula is:



C₂₃H₂₇N₃O₇·HCl

M.W. 493.94

Minocycline hydrochloride tablets, for oral administration, contains minocycline hydrochloride equivalent to 50 mg, 75 mg or 100 mg of minocycline. In addition, each tablet contains the following inactive ingredients: colloidal silicon dioxide, croscopolone, hypromellose, iron oxide yellow, lactose monohydrate, magnesium stearate, polyethylene glycol 6000, silicified microcrystalline cellulose, stearic acid, titanium dioxide.

CLINICAL PHARMACOLOGY

Minocycline hydrochloride tablets are rapidly absorbed from the gastrointestinal tract following oral administration. Following a single dose of two 100 mg tablets of minocycline hydrochloride administered to 18 normal fasting adult volunteers, maximum serum concentrations were attained in 1 to 4 hours (average 2.1 hours) and ranged from 2.1 to 5.1 mcg/mL (average 3.5 mcg/mL). The serum half-life in the normal volunteers ranged from 11.1 to 22.1 hours (average 15.5 hours).

When minocycline hydrochloride tablets were given concomitantly with a meal which included dairy products, the extent of absorption of minocycline hydrochloride tablets was not noticeably influenced. The peak plasma concentrations were slightly decreased (11.2%) and delayed by one hour when administered with food, compared to dosing under fasting conditions.

In previous studies with other minocycline dosage forms, the minocycline serum half-life ranged from 11 to 16 hours in 7 patients with hepatic dysfunction, and from 18 to 69 hours in 5 patients with renal dysfunction. The urinary and fecal recovery of minocycline when administered to 12 normal volunteers is one-half to one-third that of other tetracyclines.

Microbiology

The tetracyclines are primarily bacteriostatic and are thought to exert their antimicrobial effect by the inhibition of protein synthesis. The tetracyclines, including minocycline, have a similar antimicrobial spectrum of activity against a wide range of gram-positive and gram-negative organisms. Cross-resistance of these organisms to tetracyclines is common.

While *in vitro* studies have demonstrated the susceptibility of most strains of the following microorganisms, clinical efficacy for infections other than those included in the **INDICATIONS AND USAGE** section has not been documented.

GRAM-NEGATIVE BACTERIA:

Bartonella bacilliformis
Brucella species
Calymatobacterium granulomatis
Campylobacter fetus
Francisella tularensis
Haemophilus ducreyi
Haemophilus influenzae
Listeria monocytogenes
Neisseria gonorrhoeae
Vibrio cholerae
Yersinia pestis

Because many strains of the following groups of gram-negative microorganisms have been shown to be resistant to tetracyclines, culture and susceptibility tests are especially recommended:

Acinetobacter species
Bacteroides species
Enterobacter aerogenes
Escherichia coli
Klebsiella species
Shigella species

GRAM-POSITIVE BACTERIA:

Because many strains of the following groups of gram-positive microorganisms have been shown to be resistant to tetracyclines, culture and susceptibility testing are especially recommended. Up to 44 percent of *Streptococcus pyogenes* strains have been found to be resistant to tetracycline drugs. Therefore, tetracyclines should not be used for streptococcal disease unless the organism has been demonstrated to be susceptible.

Enterococcus group (*Enterococcus faecalis* [formerly *Streptococcus faecalis*] and *Enterococcus faecium* [formerly *Streptococcus faecium*])

Streptococcus pneumoniae
Streptococcus pyogenes
Viridans group streptococci

OTHER MICROORGANISMS:

Actinomyces species
Bacillus anthracis
Balantidium coli
Borrelia recurrentis
Chlamydia psittaci
Chlamydia trachomatis
Clostridium species
Eritrhaeba species
Fusobacterium fusiforme
Mycoplasma pneumoniae
Propionibacterium acnes
Rickettsiae
Trachomonas pallidum
Trachomonas pertenuis
Ureaplasma urealyticum

Susceptibility Tests

Diffusion Techniques

The use of antibiotic disk susceptibility test methods which measure zone diameter give an accurate estimation of susceptibility of microorganisms to minocycline. One such standard procedure¹ has been recommended for use with disks for testing antimicrobials. Either the 30 mcg tetracycline-class disk or the 30 mcg minocycline disk should be used for the determination of the susceptibility of microorganisms to minocycline.

With this type of procedure a report of "susceptible" from the laboratory indicates that the infecting organism is likely to respond to therapy. A report of "intermediate susceptibility" suggests that the organism would be susceptible if a high dosage is used or if the infection is confined to tissues and fluids (e.g., urine) in which high antibiotic levels are attained. A report of "resistant" indicates that the infecting organism is not likely to respond to therapy. With either the tetracycline-class disk or the minocycline disk, zone sizes of 19 mm or greater indicate susceptibility, zone sizes of 14 mm or less indicate resistance, and zone sizes of 15 to 18 mm indicate intermediate susceptibility.

Standardized procedures require the use of laboratory control organisms. The 30 mcg tetracycline disk should give zone diameters between 19 and 28 mm for *Staphylococcus aureus* ATCC 25923 and between 18 and 25 mm for *Escherichia coli* ATCC 25922. The 30

mcg minocycline disk should give zone diameters between 25 and 30 mm for *S. aureus* ATCC 25923 and between 19 and 25 mm for *E. coli* ATCC 25922.

Dilution Techniques

When using the NCCLS agar dilution or broth dilution (including microdilution) method² or equivalent, a bacterial isolate may be considered susceptible if the MIC (minimal inhibitory concentration) of minocycline is 4 mcg/mL or less. Organisms are considered resistant if the MIC is 16 mcg/mL or greater. Organisms with an MIC value of less than 16 mcg/mL but greater than 4 mcg/mL are expected to be susceptible if a high dosage is used or if the infection is confined to tissues and fluids (e.g., urine) in which high antibiotic levels are attained.

As with standard diffusion methods, dilution procedures require the use of laboratory control organisms. Standard tetracycline or minocycline powder should give MIC values of 0.25 mcg/mL to 1.0 mcg/mL for *S. aureus* ATCC 25923, and 1.0 mcg/mL to 4.0 mcg/mL for *E. coli* ATCC 25922.

INDICATIONS AND USAGE

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

Minocycline hydrochloride tablets are indicated in the treatment of the following infections due to susceptible strains of the designated microorganisms:

Rocky Mountain spotted fever, typhus fever and the typhus group, Q fever, rickettsialpox and tick fevers caused by rickettsiae.
Respiratory tract infections caused by *Mycoplasma pneumoniae*.
Lymphogranuloma venereum caused by *Chlamydia trachomatis*.
Psittacosis (Ornithosis) due to *Chlamydia psittaci*.
Trachoma caused by *Chlamydia trachomatis*, although the infectious agent is not always eliminated, as judged by immunofluorescence.
Inclusion conjunctivitis caused by *Chlamydia trachomatis*.
Nongonococcal urethritis, endocervical, or rectal infections in adults caused by *Ureaplasma urealyticum* or *Chlamydia trachomatis*.
Relapsing fever due to *Borrelia recurrentis*.
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 *Calymatobacterium granulomatis*.

Minocycline is 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.
Minocycline hydrochloride tablets are indicated for the treatment of infections caused by the following gram-positive microorganisms when bacteriologic testing indicates appropriate susceptibility to the drug:
Upper respiratory tract infections caused by *Streptococcus pneumoniae*.
Skin and skin structure infections caused by *Staphylococcus aureus*. (Note: Minocycline is not the drug of choice in the treatment of any type of staphylococcal infection).

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

Uncomplicated urethritis in men due to *Neisseria gonorrhoeae* and for the treatment of other gonococcal infections.
Infections in women caused by *Neisseria gonorrhoeae*.
Syphilis caused by *Treponema pallidum* subspecies *pallidum*.
Yaws caused by *Treponema pallidum* subspecies *pertenuis*.
Listeriosis due to *Listeria monocytogenes*.
Anthrax due to *Bacillus anthracis*.
Vincent's infection caused by *Fusobacterium fusiforme*.
Actinomycosis caused by *Actinomyces israelii*.
Infections caused by *Clostridium* species.

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

In severe acne, minocycline may be useful adjunctive therapy.

Oral minocycline is indicated in the treatment of asymptomatic carriers of *Neisseria meningitidis* to eliminate meningococci from the nasopharynx. In order to preserve the usefulness of minocycline in the treatment of asymptomatic meningococcal carriers, diagnostic laboratory procedures, including serotyping and susceptibility testing, should be performed to establish the carrier state and the correct treatment. It is recommended that the prophylactic use of minocycline be reserved for situations in which the risk of meningococcal meningitis is high.

Oral minocycline is not indicated for the treatment of meningococcal infection.

Although no controlled clinical efficacy studies have been conducted, limited clinical data show that oral minocycline hydrochloride has been used successfully in the treatment of infections caused by *Mycobacterium marinum*.

CONTRAINDICATIONS

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

WARNINGS

MINOCYCLINE, LIKE OTHER TETRACYCLINE-CLASS ANTIBIOTICS, CAN CAUSE FETAL HARM WHEN ADMINISTERED TO A PREGNANT WOMAN. 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 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 drug but has been observed following repeated short-term courses. Enamel hypoplasia has also been reported. **TETRACYCLINE DRUGS, THEREFORE, SHOULD NOT BE USED DURING TOOTH DEVELOPMENT UNLESS OTHER DRUGS ARE NOT LIKELY TO BE EFFECTIVE OR ARE CONTRAINDICATED.**

All tetracyclines form a stable calcium complex in any bone-forming tissue. A decrease in the fibula growth rate has been observed in premature human infants 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 embryotoxicity has been noted in animals treated early in pregnancy.

The anti-anabolic action of the tetracyclines may cause an increase in BUN. While this is not a problem in those with normal renal function, in patients with significantly impaired function, higher serum levels of tetracycline may lead to azotemia, hyperphosphatemia, and acidosis. If renal impairment exists, even usual oral or parenteral doses may lead to excessive systemic accumulations of the drug and possible liver toxicity. Under such conditions, lower than usual total doses are indicated, and if therapy is prolonged, serum level determinations of the drug may be advisable.

Photosensitivity manifested by an exaggerated sunburn reaction has been observed in some individuals taking tetracyclines. This has been reported rarely with minocycline.

Central nervous system side effects including lightheadedness, dizziness, or vertigo have been reported with minocycline therapy. Patients who experience these symptoms should be cautioned about driving vehicles or using hazardous machinery while on minocycline therapy. These symptoms may disappear during therapy and usually disappear rapidly when the drug is discontinued.

PRECAUTIONS

General

Prescribing minocycline hydrochloride 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.

As with other antibiotic preparations, use of this drug may result in overgrowth of non-susceptible organisms, including fungi. If superinfection occurs, the antibiotic should be discontinued and appropriate therapy instituted.

Pseudotumor cerebri (benign intracranial hypertension) in adults has been associated with the use of tetracyclines. The usual clinical manifestations are headache and blurred vision. Bulging fontanels have been associated with the use of tetracyclines in infants. While both of these conditions and related symptoms usually resolve after discontinuation of the tetracycline, the possibility for permanent sequelae exists.

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

Information For Patients

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

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. This reaction has been reported rarely with use of minocycline.

Patients who experience central nervous system symptoms (see **WARNINGS**) should be cautioned about driving vehicles or using hazardous machinery while on minocycline therapy.

Concurrent use of tetracyclines with oral contraceptives may render oral contraceptives less effective (see **Drug Interactions**).

Laboratory Tests

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

All patients with gonorrhea should have a serologic test for syphilis at the time of diagnosis. Patients treated with minocycline should have a follow-up serologic test for syphilis after 3 months.

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 tetracycline-class drugs in conjunction with penicillin.

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

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

Concurrent use of tetracyclines with oral contraceptives 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

Dietary administration of minocycline in long term tumorigenicity studies in rats resulted in evidence of thyroid tumor production. Minocycline has also been found to produce thyroid hyperplasia in rats and dogs. In addition, there has been evidence of oncogenic activity in rats in studies with a related antibiotic, oxytetracycline (i.e., adrenal and pituitary tumors). Likewise, although mutagenicity studies of minocycline have not been conducted, positive results in *in vitro* mammalian cell assays (i.e., mouse lymphoma and Chinese hamster lung cells) have been reported for related antibiotics (tetracycline hydrochloride and oxytetracycline). Segment I (fertility and general reproduction) studies have provided evidence that minocycline impairs fertility in male rats.

Pregnancy

Teratogenic Effects: Pregnancy Category D. (See **WARNINGS**.)

Nonteratogenic Effects: (See **WARNINGS**.)

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 the tetracyclines, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother (See **WARNINGS**).

Pediatric Use

(See **WARNINGS**).

Geriatric Use: Clinical studies of oral minocycline did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy (see **WARNINGS, DOSAGE AND ADMINISTRATION**).

ADVERSE REACTIONS

Due to oral minocycline'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, pancreatitis, inflammatory lesions, (with monilial overgrowth) in the oropharyngeal region, and increases in liver enzymes have been reported. Rarely, hepatitis and liver failure have 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 taking the tetracycline-class antibiotics in capsule and tablet form. Most of these patients took the medication immediately before going to bed (see **DOSAGE AND ADMINISTRATION**).

Skin: Maculopapular and erythematous rashes. Exfoliative dermatitis has been reported but is uncommon. Fixed drug eruptions have been rarely reported. Lesions occurring on the glans penis have caused balanitis. Erythema multiforme and, rarely, Stevens-Johnson syndrome have been reported. Photosensitivity is discussed above (see **WARNINGS**). Pigmentation of the skin and mucous membranes has been reported.

Renal toxicity: Elevations in BUN have been reported and are apparently dose related (see **WARNINGS**). Acute renal failure has been rarely reported and, in most cases, has been reversible.

Hypersensitivity reactions: Urticaria, angioneurotic edema, polyarthralgia, anaphylaxis, anaphylactoid purpura, pericarditis, exacerbation of systemic lupus erythematosus, and rarely, pulmonary infiltrates with eosinophilia have been reported. A lupus-like syndrome and serum sickness-like reactions also have been reported.

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

Central nervous system: Bulging fontanels in infants and benign intracranial hypertension (Pseudotumor cerebri) in adults (see **PRECAUTIONS - General**) have been reported. Headache has also been reported.

Other: When given over prolonged periods, tetracyclines have been reported to produce brown-black microscopic discoloration of the thyroid gland. Very rare cases of abnormal thyroid function have been reported.

Tooth discoloration in pediatric patients less than 8 years of age (see **WARNINGS**) and also, rarely, in adults has been reported.

Tinnitus and decreased hearing have been rarely reported in patients on minocycline hydrochloride tablets.

OVERDOSAGE

In case of overdosage, discontinue medication, treat symptomatically, and institute supportive measures. Minocycline is not removed in significant quantities by hemodialysis or peritoneal dialysis.

DOSAGE AND ADMINISTRATION

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

Minocycline hydrochloride tablets should be taken at least one hour before meals or 2 hours after meals (see **CLINICAL PHARMACOLOGY**).

For Pediatric Patients Above 8 Years of Age

Usual pediatric dose: 4 mg/kg initially followed by 2 mg/kg every 12 hours.

Adults

The usual dosage of minocycline hydrochloride tablets is 200 mg initially followed by 100 mg every 12 hours. Alternatively, if more frequent doses are preferred, two or four 50 mg tablets may be given initially followed by one 50 mg tablet 4 times daily.

Uncomplicated gonococcal infections other than urethritis and anorectal infections in men: 200 mg initially, followed by 100 mg every 12 hours for a minimum of 4 days, with post-therapy cultures within 2 to 3 days.

In the treatment of uncomplicated gonococcal urethritis in men, 100 mg every 12 hours for 5 days is recommended.

For the treatment of syphilis, the usual dosage of minocycline hydrochloride should be administered over a period of 10 to 15 days. Close follow-up, including laboratory tests, is recommended.

In the treatment of meningococcal carrier state, the recommended dosage is 100 mg every 12 hours for 5 days.

Mycobacterium marinum infections: Although optimal doses have not been established, 100 mg every 12 hours for 6 to 8 weeks has been used successfully in a limited number of cases.

Uncomplicated urethral, endocervical, or rectal infection in adults caused by *Chlamydia trachomatis* or *Ureaplasma urealyticum*: 100 mg orally, every 12 hours for at least 7 days.

Ingestion of adequate amounts of fluids along with capsule and tablet forms of the drugs in the tetracycline-class is recommended to reduce the risk of esophageal irritation and ulceration.

In patients with renal impairment (see **WARNINGS**), the total dosage should be decreased by either reducing the recommended individual doses and/or by extending the time intervals between doses.

HOW SUPPLIED

Minocycline Hydrochloride Tablets USP equivalent to 50 mg minocycline are yellow colored, oval shaped, film coated tablets, debossed with "STIEFEL" on one side and "7338" on other side. They are supplied as follows:

NDC 63304-697-05 Bottles of 500

Minocycline Hydrochloride Tablets USP equivalent to 75 mg minocycline are yellow colored, oval shaped, film coated tablets, debossed with "STIEFEL" on one side and "7339" on other side. They are supplied as follows:

NDC 63304-698-05 Bottles of 500

Minocycline Hydrochloride Tablets USP equivalent to 100 mg minocycline are yellow colored, oval shaped, film coated tablets, debossed with "STIEFEL" on one side and "7340" on other side with a bisect between "73" and "40". They are supplied as follows:

NDC 63304-699-05 Bottles of 500

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

Protect from light, moisture and excessive heat.

Dispense in a tight, light-resistant container as defined in the USP.

ANIMAL PHARMACOLOGY AND TOXICOLOGY

Minocycline hydrochloride has been observed to cause dark discoloration of the thyroid in experimental animals (rats, minipigs, dogs and monkeys). In the rat, chronic treatment with minocycline hydrochloride has resulted in goiter accompanied by elevated radioactive iodine uptake and evidence of thyroid tumor production. Minocycline hydrochloride has also been found to produce thyroid hyperplasia in rats and dogs.

REFERENCES

1. National Committee for Clinical Laboratory Standards Approved Standard: *Performance Standards for Antimicrobial Disk Susceptibility Tests*, 3rd Edition, Volume 4(16): M2-A3. Villanova, PA, December 1984.
2. National Committee for Clinical Laboratory Standards. Approved Standard: *Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically*, 2nd Edition, Volume 5(22): M7-A Villanova, PA, December 1995.

Manufactured for:
Ranbaxy Pharmaceuticals Inc.
Jacksonville, FL 32216 USA
by: Ohm Laboratories, Inc.
North Brunswick, NJ 08902 USA

October 2003

FDA-02

65-156

Bottle Size 200cc = 99.06 mm x 50.04 mm (3.9" x 1.97")

Manufactured for:
 Ranbaxy Pharmaceuticals, Inc.
 Jackson, NJ 07231 USA
 by: Omni Laboratories, Inc.
 North Brunswick, NJ 08902 USA

R **RANBAXY**
 NDC 63304-697-05

**MINOCYCLINE
 HYDROCHLORIDE**
 Tablets, USP

50 mg
 Rx only

JAN 06 2004

500 Tablets

Each tablet contains: Minocycline hydrochloride equivalent to 50 mg minocycline.
 Adult Dosage: Four 50 mg tablets initially followed by one 50 mg tablet four times daily.
 See package insert for dosage and full prescribing information.
 Protect from light, moisture and excessive heat.
 Dispense in a light, light-resistant container as defined in the USP.
 This package not for household use.
 Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].

1093

00000000
FPO

LOT:
 EXP:

non varnish area

633046970516

16

65-156

Bottle Size 300cc = 130.1mm x 59.94mm (5.12" x 2.36")

Manufactured for:
Ranbaxy Pharmaceuticals, Inc.
Jacksonville, FL 32216 USA
by: Orlin Laboratories, Inc.
North Brunswick, NJ 08902 USA

R **RANBAXY**
NDC 63304-699-05

**MINOCYCLINE
HYDROCHLORIDE**
Tablets, USP

100 mg

500 Tablets

Each tablet contains: Minocycline hydrochloride equivalent to 100 mg minocycline.
Adult Dosage: 200 mg initially followed by 100 mg twice daily.
See package insert for dosage and full prescribing information.
Protect from light, moisture and excessive heat.
Dispense in a tight, light-resistant container as defined in the USP.
This package not for household use.
Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].

APPROVED
JAN 06 2004
Rx only

LOT:
EXP:

1003

00000000
6330416990510
non-vernish area