

**OXACILLIN - oxacillin sodium injection, powder, for solution**  
**Fresenius Kabi USA, LLC**

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**Oxacillin for Injection, USP**

**PHARMACY BULK PACKAGE - NOT FOR DIRECT INFUSION**

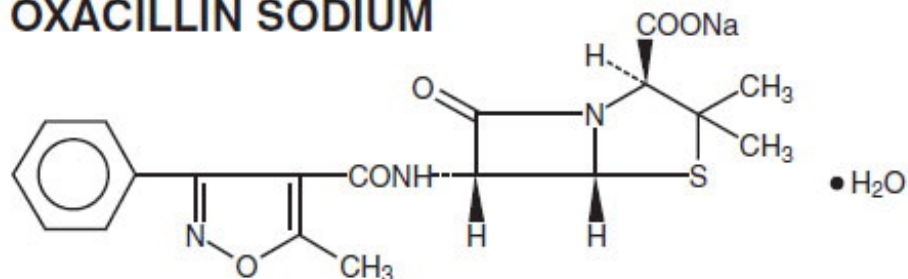
Rx only

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

**DESCRIPTION**

Oxacillin for Injection, USP is a semisynthetic penicillin antibiotic derived from the penicillin nucleus, 6-amino-penicillanic acid. It is the sodium salt in parenteral dosage form. Each Pharmacy Bulk Package bottle of Oxacillin for Injection, USP contains oxacillin sodium monohydrate equivalent to 10 grams of oxacillin. The sodium content is 64 mg [2.8 mEq] per gram oxacillin. The product is buffered with 21 mg dibasic sodium phosphate per gram oxacillin. Oxacillin for Injection, USP is a white to off-white powder filled in clear glass bottles. Dilute solutions are essentially clear and colorless to yellow.

**OXACILLIN SODIUM**



The chemical name of oxacillin sodium is 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-6-[[[(5-methyl-3-phenyl-4-isoxazolyl)carbonyl]-amino]-7-oxo-, monosodium salt, monohydrate, [2S(2 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )]-. It is resistant to inactivation by the enzyme penicillinase (beta-lactamase). The molecular formula of oxacillin sodium is C<sub>19</sub>H<sub>18</sub>N<sub>3</sub>NaO<sub>5</sub>•H<sub>2</sub>O. The molecular weight is 441.44.

A pharmacy bulk package is a container of a sterile preparation for parenteral use that contains many single doses. The contents of this pharmacy bulk package are intended for use by a pharmacy admixture service for addition to suitable parenteral fluids in the preparation of admixtures for intravenous infusion (see **DOSAGE AND ADMINISTRATION, Directions for Proper Use of Pharmacy Bulk Package**). FURTHER DILUTION IS REQUIRED. NOT FOR DIRECT INFUSION.

**CLINICAL PHARMACOLOGY**

Intravenous administration provides peak serum levels approximately 5 minutes after the injection is completed. Slow I.V. administration of 500 mg gives a peak serum level of 43 mcg/mL after 5 minutes with a half-life of 20 to 30 minutes.

Oxacillin sodium, with normal doses, has insignificant concentrations in the cerebrospinal and ascitic fluids. It is found in therapeutic concentrations in the pleural, bile, and amniotic fluids.

Oxacillin sodium is rapidly excreted as unchanged drug in the urine by glomerular filtration and active tubular secretion. The elimination half-life for oxacillin is about 0.5 hours. Nonrenal elimination includes hepatic inactivation and excretion in bile.

Oxacillin sodium binds to serum protein, mainly albumin. The degree of protein binding reported varies with the method of study and the investigator, but generally has been found to be  $94.2 \pm 2.1\%$ .

Probenecid blocks the renal tubular secretion of penicillins. Therefore, the concurrent administration of probenecid prolongs the elimination of oxacillin and, consequently, increases the serum concentration.

Intravenous injection gives a peak about 5 minutes after the injection is completed. Slow IV dosing with 500 mg gives a 5 minute peak of 43 mcg/mL with a half-life of 20 to 30 minutes.

## **Microbiology**

### **Mode of Action**

Penicillinase-resistant penicillins exert a bactericidal action against penicillin susceptible microorganisms during the state of active multiplication. All penicillins inhibit the biosynthesis of the bacterial cell wall.

### **Mechanism of Resistance**

Resistance to penicillins may be mediated by destruction of the beta-lactam ring by a beta-lactamase, altered affinity of penicillin for target, or decreased penetration of the antibiotic to reach the target site.

### **Cross Resistance**

Resistance to oxacillin (or cefoxitin) implies resistance to all other beta-lactam agents, except newer agents with activity against methicillin-resistant *Staphylococcus aureus*.

### **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>.

## **INDICATIONS AND USAGE**

Oxacillin is indicated in the treatment of infections caused by penicillinase producing staphylococci which have demonstrated susceptibility to the drug. Cultures and susceptibility tests should be performed initially to determine the causative organism and its susceptibility to the drug (see **CLINICAL PHARMACOLOGY -Susceptibility Testing**).

Oxacillin may be used to initiate therapy in suspected cases of resistant staphylococcal infections prior to the availability of susceptibility test results. Oxacillin should not be used in infections caused by organisms susceptible to penicillin G. If the susceptibility tests indicate that the infection is due to an organism other than a resistant *Staphylococcus*, therapy should not be continued with oxacillin.

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

## CONTRAINDICATIONS

A history of a hypersensitivity (anaphylactic) reaction to any penicillin is a contraindication.

## WARNINGS

Serious and occasionally fatal hypersensitivity (anaphylactic shock with collapse) reactions have occurred in patients receiving penicillin. The incidence of anaphylactic shock in all penicillin-treated patients is between 0.015 and 0.04 percent. Anaphylactic shock resulting in death has occurred in approximately 0.002 percent of the patients treated.

When oxacillin therapy is indicated, it should be initiated only after a comprehensive patient drug and allergy history has been obtained. If an allergic reaction occurs, oxacillin should be discontinued and appropriate therapy instituted.

*Clostridium difficile* associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including Oxacillin for Injection, USP, 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.

## PRECAUTIONS

### General

Oxacillin should generally not be administered to patients with a history of sensitivity to any penicillin.

Penicillin should be used with caution in individuals with histories of significant allergies and/or asthma. Whenever allergic reactions occur, penicillin should be withdrawn unless, in the opinion of the physician, the condition being treated is life-threatening and amenable only to penicillin therapy.

The use of antibiotics may result in overgrowth of nonsusceptible organisms. If new infections due to bacteria or fungi occur, the drug should be discontinued and appropriate measures taken.

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

### Laboratory Tests

Bacteriologic studies to determine the causative organisms and their susceptibility to oxacillin should be performed (see **CLINICAL PHARMACOLOGY -Microbiology**). In the treatment of suspected staphylococcal infections, therapy should be changed to another active agent if culture tests fail to demonstrate the presence of staphylococci.

Periodic assessment of organ system function including renal, hepatic, and hematopoietic should be made during prolonged therapy with oxacillin.

Blood cultures, white blood cell, and differential cell counts should be obtained prior to initiation of therapy and at least weekly during therapy with oxacillin.

Periodic urinalysis, blood urea nitrogen, and creatinine determinations should be performed during therapy with oxacillin and dosage alterations should be considered if these values become elevated. If any impairment of renal function is suspected or known to exist, a reduction in the total dosage should be considered and blood levels monitored to avoid possible neurotoxic reactions.

AST (SGOT) and ALT (SGPT) values should be obtained periodically during therapy to monitor for possible liver function abnormalities.

### **Drug Interactions**

Tetracycline, a bacteriostatic antibiotic, may antagonize the bactericidal effect of penicillin and concurrent use of these drugs should be avoided.

Oxacillin blood levels may be increased and prolonged by concurrent administration of probenecid which blocks the renal tubular secretion of penicillins. Probenecid decreases the apparent volume of distribution and slows the rate of excretion by competitively inhibiting renal tubular secretion of penicillins.

Oxacillin-probenecid therapy should be limited to those infections where very high serum levels of oxacillin are necessary.

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

No long-term animal studies have been conducted with these drugs. Studies on reproduction (nafcillin) in rats and rabbits reveal no fetal or maternal abnormalities before conception and continuously through weaning (one generation).

### **Pregnancy**

Teratogenic Effects

*Pregnancy Category B*

Reproduction studies performed in the mouse, rat, and rabbit have revealed no evidence of impaired fertility or harm to the fetus due to the penicillinase-resistant penicillins. Human experience with the penicillins during pregnancy has not shown any positive evidence of adverse effects on the fetus.

There are, however, no adequate or well-controlled studies in pregnant women showing conclusively that harmful effects of these drugs on the fetus can be excluded. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

### **Nursing Mothers**

Penicillins are excreted in human milk. Caution should be exercised when penicillins are administered to a nursing woman.

### **Pediatric Use**

Because of incompletely developed renal function in pediatric patients, oxacillin may not be completely excreted, with abnormally high blood levels resulting. Frequent blood levels are advisable in this group with dosage adjustments when necessary. All pediatric patients treated with penicillins should be monitored closely for clinical and laboratory evidence of toxic or adverse effects. Safety and effectiveness in pediatric patients have not been established.

### **Geriatric Use**

Clinical studies of Oxacillin for Injection did not include sufficient number of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. 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.

This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

Oxacillin for Injection contains 64 mg (2.8 mEq) of sodium per gram oxacillin. At the usual recommended doses, patients would receive between 64 and 383 mg/day (2.8 and 17 mEq) of sodium. The geriatric population may respond with a blunted natriuresis to salt loading. This may be clinically important with regard to such diseases as congestive heart failure.

### **Information for Patients**

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

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.

## **ADVERSE REACTIONS**

### **Body as a Whole**

The reported incidence of allergic reactions to penicillin ranges from 0.7 to 10 percent (see **WARNINGS**). Sensitization is usually the result of treatment but some individuals have had immediate reactions when first treated. In such cases, it is thought that the patients may have had prior exposure to the drug via trace amounts present in milk and vaccines.

Two types of allergic reactions to penicillins are noted clinically, immediate and delayed.

Immediate reactions usually occur within 20 minutes of administration and range in severity from urticaria and pruritus to angioneurotic edema, laryngospasm, bronchospasm, hypotension, vascular collapse and death.

Such immediate anaphylactic reactions are very rare (see **WARNINGS**) and usually occur after parenteral therapy but have occurred in patients receiving oral therapy. Another type of immediate reaction, an accelerated reaction, may occur between 20 minutes and 48 hours after administration and may include urticaria, pruritus, and fever. Although laryngeal edema, laryngospasm, and hypotension occasionally occur, fatality is uncommon.

Delayed allergic reactions to penicillin therapy usually occur after 48 hours and sometimes as late as 2 to 4 weeks after initiation of therapy. Manifestations of this type of reaction include serum sickness-like symptoms (i.e., fever, malaise, urticaria, myalgia, arthralgia, abdominal pain) and various skin rashes. Nausea, vomiting, diarrhea, stomatitis, black or hairy tongue, and other symptoms of gastrointestinal irritation may occur, especially during oral penicillin therapy.

## **Nervous System Reactions**

Neurotoxic reactions similar to those observed with penicillin G may occur with large intravenous doses of oxacillin, especially with patients with renal insufficiency.

## **Urogenital Reactions**

Renal tubular damage and interstitial nephritis have been associated with the administration of oxacillin. Manifestations of this reaction may include rash, fever, eosinophilia, hematuria, proteinuria, and renal insufficiency. Nephropathy induced by penicillins does not appear to be dose-related and is generally reversible upon prompt discontinuation of therapy.

## **Gastrointestinal Reactions**

Pseudomembranous colitis has been reported with the use of oxacillin. The onset of pseudomembranous colitis symptoms may occur during or after antibiotic treatment (see **WARNINGS**).

## **Metabolic Reactions**

Agranulocytosis, neutropenia, and bone marrow depression have been associated with the use of oxacillin. Hepatotoxicity, characterized by fever, nausea, and vomiting associated with abnormal liver function tests, mainly elevated SGOT levels, has been associated with the use of oxacillin.

**To report SUSPECTED ADVERSE REACTIONS, contact Fresenius Kabi USA, LLC at 1-800-551-7176 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

## **OVERDOSAGE**

The signs and symptoms of oxacillin overdosage are those described in the **ADVERSE REACTIONS** section. If signs or symptoms occur, discontinue use of the medication, treat symptomatically, and institute appropriate supportive measures.

## **DOSAGE AND ADMINISTRATION**

**The intent of the pharmacy bulk package for this product is for preparation of solutions for IV infusion only.**

Bacteriologic studies to determine the causative organisms and their susceptibility to oxacillin should always be performed. Duration of therapy varies with the type of severity of infection as well as the overall condition of the patient; therefore, it should be determined by the clinical and bacteriological response of the patient. In severe staphylococcal infections, therapy with oxacillin should be continued for at least 14 days. Therapy should be continued for at least 48 hours after the patient has become afebrile, asymptomatic, and cultures are negative. Treatment of endocarditis and osteomyelitis may require a longer duration of therapy.

With intravenous administration, particularly in elderly patients, care should be taken because of the possibility of thrombophlebitis.

## **RECOMMENDED DOSAGES FOR OXACILLIN FOR INJECTION, USP**

<b>Drug</b>	<b>Adults</b>	<b>Infants and Children &lt; 40 kg (88 lbs)</b>	<b>Other Recommendations</b>
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Oxacillin	250 to 500 mg IV every 4 to 6 hours (mild to moderate infections)	50 mg/kg/day IV in equally divided doses every 6 hours (mild to moderate infections)	
Oxacillin	1 gram IV every 4 to 6 hours (severe infections)	100 mg/kg/day IV in equally divided doses every 4 to 6 hours (severe infections)	Premature and Neonates 25 mg/kg/day IV

## Directions for Use

### For Administration by Intravenous Drip

Reconstitute as directed below (Pharmacy Bulk Package) prior to further dilution.

### STABILITY PERIODS FOR OXACILLIN FOR INJECTION, USP

Concentration mg/mL	Sterile Water for Injection, USP	0.9% Sodium Chloride Injection, USP	M/6 Molar Sodium Lactate Solution	5% Dextrose in Water	5% Dextrose in 0.45% Sodium Chloride	10% Invert Sugar Injection, USP	Lactated Ringers Solution
<b>ROOM TEMPERATURE (25°C)</b>							
10 to 100	4 Days	4 Days					
10 to 30			24 Hrs		24 Hrs		
0.5 to 2				6 Hrs		6 Hrs	6 Hrs
<b>REFRIGERATION (4°C)</b>							
10 to 100	7 Days	7 Days					
10 to 30			4 Days	4 Days	4 Days	4 Days	4 Days
<b>FROZEN (-15°C)</b>							
50 to 100	30 Days						
250/1.5 mL	30 Days						
100		30 Days					
10 to 100			30 Days	30 Days	30 Days	30 Days	30 Days

Stability studies on Oxacillin Sodium at concentrations of 0.5 mg/mL and 2 mg/mL in various intravenous solutions listed below indicate the drug will lose less than 10% activity at room temperature (70°F) during a 6-hour period.

## IV Solution

5% Dextrose in Normal Saline

10% D-Fructose in Water

10% Invert Sugar in Normal Saline

10% Invert Sugar Plus 0.3% Potassium Chloride in Water

Only those solutions listed above should be used for the intravenous infusion of Oxacillin Sodium. The concentration of the antibiotic should fall within the range specified. The drug concentration and the rate and volume of the infusion should be adjusted so that the total dose of oxacillin is administered before the drug loses its stability in the solution in use.

If another agent is used in conjunction with oxacillin therapy, **it should not be physically mixed** with oxacillin but should be administered separately.

## Pharmacy Bulk Package

This glass Pharmacy Bulk Package bottle contains 10 grams Oxacillin Sodium and is designed for use in the pharmacy in preparing IV *admixtures*. Add 93 mL Sterile Water for Injection, USP or Sodium Chloride Injection, USP 0.9%. The resulting solution will contain 100 mg oxacillin per mL and will require further dilution.

**CAUTION: NOT TO BE DISPENSED AS A UNIT.**

## Directions for Proper Use of Pharmacy Bulk Package

- a. The container closure may be penetrated only one time after reconstitution, utilizing a suitable sterile dispensing set which allows measured distribution of the contents.
- b. Use of this product is restricted to a suitable work area, such as a laminar flow hood.
- c. Once this container closure has been punctured, withdrawal of the contents should be completed without delay. If prompt fluid transfer cannot be accomplished, discard the contents no later than 4 HOURS after initial closure puncture. This time limit should begin with the introduction of solvent for diluent into the Pharmacy Bulk Package.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

Do not add supplementary medication to Oxacillin for Injection, USP.

## HOW SUPPLIED/STORAGE AND HANDLING

Each Pharmacy Bulk Package bottle of Oxacillin for Injection, USP contains oxacillin sodium monohydrate equivalent to 10 grams of oxacillin and is supplied as follows:

Product Code	Unit of Sale	Strength
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801100	NDC 63323-811-00 Individually Packaged	10 grams per Pharmacy Bulk Package Bottle
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### **Storage Conditions**

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

**Sterile, Nonpyrogenic, Preservative-free.**

**The container closure is not made with natural rubber latex.**

The brand names mentioned in this document are the trademarks of their respective owners.

Manufactured for:



Lake Zurich, IL 60047

[www.fresenius-kabi.com/us](http://www.fresenius-kabi.com/us)

Made in Italy

451383 /Issued: June 2020

### **PACKAGE LABEL - PRINCIPAL DISPLAY PANEL - Oxacillin 10 gram Vial Label**

NDC 63323-811-00

#### **Oxacillin**

for Injection, USP

**10 grams per Pharmacy Bulk Package**

PHARMACY BULK PACKAGE - NOT FOR DIRECT INFUSION

**Buffered - For Intravenous Use\***

Rx only

NDC 63323-811-00

# Oxacillin for Injection, USP

10 grams per  
Pharmacy Bulk Package

**PHARMACY BULK PACKAGE -  
NOT FOR DIRECT INFUSION**

**Buffered - For Intravenous Use\***

Rx only

Sterile, Nonpyrogenic, Preservative-Free.

Each pharmacy bulk package bottle contains: oxacillin monohydrate equivalent to 10 grams oxacillin; and 21 mg dibasic sodium phosphate (as a buffer) per gram of oxacillin. Each gram contains 64 mg (2.8 mEq) of sodium.

**Usual Adult Dosage:** See insert for complete dosage information and proper use of this container.

\*This Pharmacy Bulk Package is intended for preparing intravenous admixtures only.

**Reconstitution:** Add 93 mL Sterile Water for Injection or Sodium Chloride Injection, 0.9%. The resulting solution will contain 100 mg oxacillin activity per mL. Once the container closure has been punctured, withdrawal of the contents should be completed without delay. If prompt fluid transfer cannot be accomplished, discard the contents no later than **4 HOURS** after initial closure puncture. Dispense aliquots from the bottle via a suitable dispensing set into infusion fluids under a laminar flow hood using aseptic technique.

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

The container closure is not made with natural rubber latex.

Manufactured for:

**Fresenius Kabi**  
Lake Zurich, IL 60047

RM16000899.00

**402940**

Made in Italy

Discard after: (date) \_\_\_\_/\_\_\_\_/\_\_\_\_

(time) \_\_\_\_ (am)(pm).



Lot: \_\_\_\_\_  
Exp.: \_\_\_\_\_

10 grams per Pharmacy Bulk Package

Oxacillin for Injection, USP



## PACKAGE LABEL - PRINCIPAL DISPLAY PANEL - Oxacillin 10 gram Carton

NDC 63323-811-00

**Oxacillin**

for Injection, USP

**10 grams per Pharmacy Bulk Package**

**PHARMACY BULK PACKAGE - NOT FOR DIRECT INFUSION**

**Buffered - For Intravenous Use\***

Rx only

**One 10 gram Pharmacy Bulk Package Bottle**

00100901.00

**Reconstitution:** Add 93 mL Sterile Water for Injection or Sodium Chloride Injection, 0.9%. The resulting solution will contain 100 mg oxacillin activity per mL. Once the container closure has been punctured, withdrawal of the contents should be completed without delay. If prompt fluid transfer cannot be accomplished, discard the contents no later than **4 HOURS** after initial closure puncture. Dispense aliquots from the bottle via a suitable dispensing set into infusion fluids under a laminar flow hood using aseptic technique.

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

The container closure is not made with natural rubber latex.

NDC 63323-811-00

## **Oxacillin** for Injection, USP

**10 grams per  
Pharmacy Bulk Package**

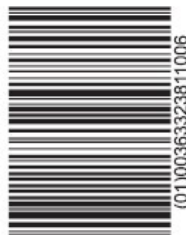
**PHARMACY BULK PACKAGE –  
NOT FOR DIRECT INFUSION**

**Buffered – For Intravenous Use\***

Rx only

**One 10 gram Pharmacy Bulk  
Package Bottle**

For product inquiry please  
call 1-800-551-7176 or  
[www.fresenius-kabi.com/us](http://www.fresenius-kabi.com/us)



(01)00363323811006

Sterile, Nonpyrogenic,  
Preservative-Free

Each pharmacy bulk package bottle contains: oxacillin monohydrate equivalent to 10 grams oxacillin; and 21 mg dibasic sodium phosphate (as a buffer) per gram of oxacillin. Each gram contains 64 mg (2.8 mEq) of sodium.

**Usual Adult Dosage:** See insert for complete dosage information and proper use of this container.

\*This Pharmacy Bulk Package is intended for preparing intravenous admixtures only.



Manufactured for:



Lake Zurich, IL 60047  
Made in Italy

P160061

621787

## **OXACILLIN**

oxacillin sodium injection, powder, for solution

### **Product Information**

Product Type		HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:63323-8 11	
Route of Administration		INTRAVENOUS			
Active Ingredient/Active Moiety					
Ingredient Name			Basis of Strength	Strength	
OXACILLIN SODIUM (UNII: G0V6C994Q5) (OXACILLIN - UNII:UH95VD7V76)			OXACILLIN	10 g in 100 mL	
Inactive Ingredients					
Ingredient Name				Strength	
SODIUM PHOSPHATE, DIBASIC (UNII: GR686LBA74)					
Packaging					
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:63323-8 11-00	1 in 1 CARTON	11/0 1/2020		
1		100 mL in 1 VIAL, PHARMACY BULK PACKAGE; Type 0: Not a Combination Product			
Marketing Information					
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA		ANDA206 199	11/0 1/2020		

**Labeler** - Fresenius Kabi USA, LLC (608775388)

<b>Establishment</b>				
<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>	
Mitim S.r.l.		438137085	MANUFACTURE(63323-811) , ANALYSIS(63323-811) , LABEL(63323-811) , PACK(63323-811) , STERILIZE(63323-811)	