

**NAFCILLIN - nafcillin sodium injection, powder, for solution**  
**Eugia US LLC**

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**Nafcillin for Injection, USP**

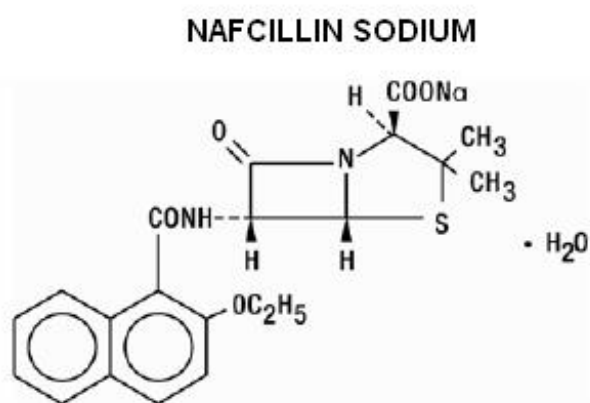
**PHARMACY BULK PACKAGE - NOT FOR DIRECT INFUSION**

**Rx only**

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

**DESCRIPTION**

Nafcillin for Injection, USP is semisynthetic penicillin derived from the penicillin nucleus, 6-aminopenicillanic acid. The chemical name of nafcillin sodium is Monosodium (2S,5R,6R)-6-(2-ethoxy-1-naphthamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0] heptane-2-carboxylate monohydrate. It is resistant to inactivation by the enzyme penicillinase (beta-lactamase). The structural formula is as follows:



$\text{C}_{21}\text{H}_{21}\text{N}_2\text{NaO}_5\text{S}\cdot\text{H}_2\text{O}$

MW = 454.47

Nafcillin for Injection, USP is a sterile white to yellowish-white powder for reconstitution and is supplied in 10 gram Pharmacy Bulk Package bottles. Each Pharmacy Bulk Package contains nafcillin sodium as the monohydrate equivalent to 10 grams of nafcillin. Sodium citrate is added to optimize pH. The sodium content is not more than

65.78 mg [2.9 mEq] per gram of nafcillin.

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

In a study of five healthy adults administered a single 500 mg dose of nafcillin by intravenous injection over seven minutes, the mean plasma concentration of the drug was approximately 30 mcg/mL at 5 minutes after injection. The mean area under the plasma concentration-versus-time curve (AUC) for nafcillin in this study was 18.06 mcg•h/mL.

The serum half-life of nafcillin administered by the intravenous route ranged from 33 to 61 minutes as measured in three separate studies.

In contrast to the other penicillinase-resistant penicillins, only about 30% of nafcillin is excreted as unchanged drug in the urine of normal volunteers, and most within the first six hours. Nafcillin is primarily eliminated by nonrenal routes, namely hepatic inactivation and excretion in the bile.

Nafcillin binds to serum proteins, mainly albumin. The degree of protein binding reported for nafcillin is  $89.9 \pm 1.5\%$ . Reported values vary with the method of study and the investigator.

The concurrent administration of probenecid with nafcillin increases and prolongs plasma concentrations of nafcillin. Probenecid significantly reduces the total body clearance of nafcillin with renal clearance being decreased to a greater extent than nonrenal clearance.

The penicillinase-resistant penicillins are widely distributed in various body fluids, including bile, pleural, amniotic and synovial fluids. With normal doses insignificant concentrations are found in the aqueous humor of the eye. High nafcillin CSF levels have been obtained in the presence of inflamed meninges.

Renal failure does not appreciably affect the serum half-life of nafcillin; therefore, no modification of the usual nafcillin dosage is necessary in renal failure with or without hemodialysis. Hemodialysis does not accelerate the rate of clearance of nafcillin from the blood.

A study which assessed the effects of cirrhosis and extrahepatic biliary obstruction in man demonstrated that the plasma clearance of nafcillin was significantly decreased in patients with hepatic dysfunction. In these patients with cirrhosis and extrahepatic obstruction, nafcillin excretion in the urine was significantly increased from about 30 to

50% of the administered dose, suggesting that renal disease superimposed on hepatic disease could further decrease nafcillin clearance.

## **MICROBIOLOGY**

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. Nafcillin sodium has been shown to be active against most isolates of the following microorganism, both *in vitro* and in clinical infections as described in the **INDICATIONS AND USAGE** section.

### Gram-Positive Bacteria

*Staphylococcus aureus* (Methicillin susceptible isolates only)

### Susceptibility Testing

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

## **INDICATIONS AND USAGE**

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

Nafcillin should not be used in infections caused by organisms susceptible to penicillin G. If the susceptibility tests indicate that the infection is due to a methicillin-resistant *Staphylococcus* sp., therapy with Nafcillin for Injection, USP should be discontinued and alternative therapy provided.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Nafcillin for Injection, USP and other antibacterial drugs, Nafcillin 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) reactions have been reported in patients on penicillin therapy. These reactions are more likely to occur in individuals with a history of penicillin hypersensitivity and/or a history of sensitivity to multiple allergens. Before initiating therapy with Nafcillin, careful inquiry should be made concerning previous hypersensitivity reactions to penicillins, cephalosporins, or other allergens. If an allergic reaction occurs, Nafcillin should be discontinued and appropriate therapy instituted.

*Clostridium difficile* associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including Nafcillin 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**

Nafcillin 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.

The liver/biliary tract is the primary route of nafcillin clearance. Caution should be exercised when patients with concomitant hepatic insufficiency and renal dysfunction are treated with nafcillin.

Prescribing Nafcillin for Injection 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 the penicillinase-resistant penicillins 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 nafcillin. White blood cell and differential cell counts should be obtained prior to initiation of therapy and periodically during therapy with nafcillin. Urinalysis, serum blood urea nitrogen, and creatinine determinations should be performed at baseline and periodically during therapy with nafcillin. Serum bilirubin, SGOT, SGPT, alkaline phosphatase, and gamma glutamyl transferase should be obtained at baseline and periodically during therapy, especially when using high nafcillin doses. In patients with worsening hepatic function, the risk versus benefit of continued nafcillin use should be re-evaluated.

## Drug Interactions

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

Nafcillin in high dosage regimens, i.e., 2 grams every 4 hours, has been reported to decrease the effects of warfarin. When nafcillin and warfarin are used concomitantly, the prothrombin time should be closely monitored and the dose of warfarin adjusted as necessary. This effect may persist for up to 30 days after nafcillin has been discontinued.

Nafcillin when administered concomitantly with cyclosporine has been reported to result in subtherapeutic cyclosporine levels. The nafcillin-cyclosporine interaction was documented in a patient during two separate courses of therapy. When cyclosporine and nafcillin are used concomitantly in organ transplant patients, the cyclosporine levels should be monitored.

## Drug/Laboratory Test Interactions

Nafcillin in the urine can cause a false-positive urine reaction for protein when the sulfosalicylic acid test is used, but not with the dipstick.

## Carcinogenesis, Mutagenesis, Impairment of Fertility

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

## Pregnancy

## Teratogenic Effects

Reproduction studies have been performed in the mouse with oral doses up to 20 times the human dose and orally in the rat at doses up to 40 times the human dose and have revealed no evidence of impaired fertility or harm to the rodent fetus due to nafcillin. There are, however, no adequate or well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, nafcillin 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

The liver/biliary tract is the principal route of nafcillin elimination. Because of immature hepatic and renal function in pediatric patients, nafcillin excretion may be impaired.

Safety and effectiveness in pediatric patients have not been established for the use of intravenous nafcillin. Safety and effectiveness in pediatric patients have been established for the use of intramuscular nafcillin.

## Geriatric Use

Clinical studies of Nafcillin for Injection did not include sufficient numbers 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.

Nafcillin for Injection contains 65.78 mg [2.9 mEq] of sodium per gram. At the usual recommended doses, patients would receive between 197.34 and 394.68 mg/day (8.58 and 17.16 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 Nafcillin for Injection should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When Nafcillin for Injection 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 Nafcillin for Injection 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 to penicillin 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 or 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 angioedema, 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.

### **Local Reactions**

Pain, swelling, inflammation, phlebitis, thrombophlebitis, and occasional skin sloughing at the injection site have occurred with intravenous administration of nafcillin. (See **DOSAGE AND ADMINISTRATION**). Severe tissue necrosis with sloughing secondary to subcutaneous extravasation of nafcillin has been reported.

### **Nervous System Reactions**

Neurotoxic reactions similar to those observed with penicillin G could occur with large intravenous or intraventricular doses of nafcillin especially in patients with concomitant hepatic insufficiency and renal dysfunction. (See **PRECAUTIONS**).

### **Urogenital Reactions**

Renal tubular damage and interstitial nephritis have been associated with the administration of nafcillin. Manifestations of this reaction may include rash, fever, eosinophilia, hematuria, proteinuria, and renal insufficiency.

### **Hepatic Reactions**

Elevation of liver transaminases and/or cholestasis may occur, especially with administration of high doses of nafcillin.

### **Gastrointestinal Reactions**

Pseudomembranous colitis has been reported with the use of nafcillin. 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 nafcillin.

To report SUSPECTED ADVERSE EVENTS, contact FDA at 1-800-FDA-1088 or [www.fda.gov](http://www.fda.gov)

### **OVERDOSAGE**

Neurotoxic reactions similar to those observed with penicillin G may arise with intravenous doses of nafcillin especially in patients with concomitant hepatic insufficiency and renal dysfunction (see **PRECAUTIONS**).

In the case of overdosage, discontinue nafcillin, treat symptomatically and institute supportive measures as required. Hemodialysis does not increase the rate of clearance of nafcillin from the blood.

### **DOSAGE AND ADMINISTRATION**

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

Nafcillin for Injection is available for intravenous use.

The usual I.V. dosage for adults is 500 mg every 4 hours. For severe infections, 1 gram every 4 hours is recommended. Administer slowly over at least 30 to 60 minutes to minimize the risk of vein irritation and extravasation.

Bacteriologic studies to determine the causative organisms and their susceptibility to



nafcillin should always be performed. Duration of therapy varies with the type and 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 nafcillin should be continued for at least 14 days. The treatment of endocarditis and osteomyelitis may require a longer duration of therapy.

No dosage alterations are necessary for patients with renal dysfunction, including those on hemodialysis. Hemodialysis does not accelerate nafcillin clearance from the blood.

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

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 Nafcillin.

## **DIRECTIONS FOR USE**

### **For Administration by Intravenous Drip**

Refer to Directions for Proper Use of a Pharmacy Bulk Package Bottle. Add 93 mL Sterile Water for Injection, USP, or 0.9% Sodium Chloride Injection, USP. The resulting solution will contain 100 mg nafcillin activity 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 Nafcillin for Injection, USP.

### **STABILITY PERIODS FOR NAFCILLIN FOR INJECTION, USP\***

					<b>Dextrose and Sodium</b>		
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Concentration mg/mL	Sterile Water for Injection, USP	Sodium Chloride Injection USP (0.9%)	Sodium Lactate Solution USP (M/6 Molar)	Dextrose Injection USP (5%)	Chloride Injection USP (5% Dextrose and 0.45% Sodium Chloride)	Invert Sugar Injection USP (10%)	Lactated Ringer's Injection USP
ROOM TEMPERATURE (25°C)							
10 to 200	24 Hrs	24 Hrs					
30			24 Hrs				
2 to 30				24 Hrs	24 Hrs		
10 to 30						24 Hrs	24 Hrs
REFRIGERATION (4°C)							
10 to 200	7 Days	7 Days					
10 to 30			7 Days	7 Days	7 Days	7 Days	7 Days
FROZEN (-15°C)							
250	90 Days	90 Days					
10 to 250			90 Days	90 Days	90 Days	90 Days	90 Days

\* IMPORTANT: This chemical stability information in no way indicates that it would be acceptable practice to use this product well after the preparation time. Good professional practice suggests that a product should be used as soon after preparation as feasible.

Only those solutions listed above should be used for the intravenous infusion of nafcillin sodium, USP. 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 nafcillin is administered before the drug loses its stability in the solution in use.

There is no clinical experience available on the use of this agent in neonates or infants for this route of administration.

This route of administration should be used for relatively short-term therapy (24 to 48 hours) because of the occasional occurrence of thrombophlebitis particularly in elderly patients.

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

## HOW SUPPLIED

Each Nafcillin for Injection, USP Pharmacy Bulk Package bottle contains nafcillin sodium equivalent to 10 grams of nafcillin.

Nafcillin for Injection, USP is a sterile, white to yellowish-white powder supplied in

Pharmacy Bulk Package bottles as follows:

Nafcillin for Injection USP, 10 g

Pharmacy Bulk Package bottles in a Box of 1

NDC 55150-124-09

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

The vial stopper is not made with natural rubber latex.

Distributed by:

**AuroMedics Pharma LLC**

279 Princeton-Hightstown Rd.

E. Windsor, NJ 08520

Manufactured by:

**Eugia Pharma Specialities Limited**

Hyderabad - 500032

India

Novapuls is a registered trademark of Vizient, Inc.

Revised: September 2022

**PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 10 g Pharmacy Bulk Package Label**

NDC 55150-124-09

Rx only

**Nafcillin**

**for Injection, USP**

**Sterile-**

**Buffered - for Intravenous Use**

**PHARMACY BULK PACKAGE -**

**NOT FOR DIRECT INFUSION**

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

**10 grams per Pharmacy Bulk Package**

**novapuls**

**Nafcillin for Injection, USP**  
10 grams per Pharmacy Bulk Package

This Pharmacy Bulk Package contains nafcillin sodium monohydrate, equivalent to 10 g nafcillin. Each gram contains 65.78 mg (2.9 mEq) sodium buffered with 40 mg sodium citrate.  
Usual Adult Dosage: 500 mg every 4 hours.  
This Pharmacy Bulk Package is intended for use in a Pharmacy Bulk Package. Utilizing a sterile transfer device, penetrate container only one time after reconstitution under a laminar flow hood. **WITHDRAW CONTENTS WITHOUT DELAY. DISCARD THE CONTENTS NO LATER THAN 4 HOURS AFTER INITIAL PUNCTURE. AFTER RECONSTITUTION FURTHER DILUTION IS REQUIRED BEFORE USE.**

**READ ACCOMPANYING INSERT.**  
Add 93 mL Sterile Water for Injection, USP or 0.9% Sodium Chloride Injection, USP. The resulting solution will contain 100 mg nafcillin activity per mL. Shake to dissolve.  
**READ accompanying insert for stability at various concentrations and proper use of a Pharmacy Bulk Package.**  
Store dry powder at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.]

NDC 55150-124-09 Rx only

**Nafcillin**  
for Injection, USP

**Sterile - Buffered - for Intravenous Use**  
PHARMACY BULK PACKAGE - NOT FOR DIRECT INFUSION

**10 grams per Pharmacy Bulk Package**

novaplus+

CAUTION: NOT TO BE DISPENSED AS A UNIT.

55150124091

Distributed by:  
**AuroMedics Pharma LLC**  
279 Princeton-Hightstown Rd.  
E. Windsor, NJ 08520  
Made in India  
Code: TS/DRUGS/57/2003  
**P 1 4 2 7 2 0 0**  
Batch :  
Expiry:  
Concentration \_\_\_\_\_  
Prepared Date/Time \_\_\_\_\_ / \_\_\_\_\_ (am)/(pm)

Nafcillin for Injection USP, 10 grams per Pharmacy Bulk Package

## PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 10 g Pharmacy Bulk Package Box Label

**NDC 55150-124-09**

**Nafcillin**

**for Injection, USP**

**Sterile - Buffered**

**- for Intravenous Use**

**10 grams per Pharmacy Bulk Package**

**PHARMACY BULK PACKAGE -**

**NOT FOR DIRECT INFUSION**

This Pharmacy Bulk Package contains nafcillin sodium monohydrate, equivalent to 10 g nafcillin. Each gram contains 65.78 mg [2.9 mEq] sodium buffered with 40 mg sodium citrate.

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

**1 x 10 g Pharmacy Bulk Package bottle**

**Rx only**

**novaplus**



<b>NAFCILLIN</b>			
nafcillin sodium injection, powder, for solution			
<b>Product Information</b>			
<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:55150-124
<b>Route of Administration</b>	INTRAVENOUS		
<b>Active Ingredient/Active Moiety</b>			
	<b>Ingredient Name</b>	<b>Basis of Strength</b>	<b>Strength</b>
	NAFCILLIN SODIUM (UNII: 49G3001BCK) (NAFCILLIN - UNII:4CNZ27M7RV)	NAFCILLIN	10 g in 100 mL
<b>Inactive Ingredients</b>			
	<b>Ingredient Name</b>	<b>Strength</b>	
	SODIUM CITRATE (UNII: 1Q73Q2JULR)		

## Product Characteristics

<b>Color</b>	WHITE (White to Yellowish-White)	<b>Score</b>	
<b>Shape</b>		<b>Size</b>	
<b>Flavor</b>		<b>Imprint Code</b>	
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:55150-124-09	1 in 1 BOX	12/26/2012	
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	ANDA091614	12/26/2012	

**Labeler** - Eugia US LLC (968961354)

## Establishment

Name	Address	ID/FEI	Business Operations
Eugia SEZ Private Limited		650921856	ANALYSIS(55150-124) , MANUFACTURE(55150-124)

## Establishment

Name	Address	ID/FEI	Business Operations
Aurobindo Pharma Limited		918917634	ANALYSIS(55150-124) , API MANUFACTURE(55150-124)

## Establishment

Name	Address	ID/FEI	Business Operations
Aurobindo Pharma Limited		918917683	ANALYSIS(55150-124) , MANUFACTURE(55150-124)

Revised: 10/2022

Eugia US LLC