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

DESCRIPTION

Penicillin G Potassium, USP is a natural penicillin. It is chemically designated 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]-, monopotassium salt, [2S-(2α, 5α, 6β)]. It is crystalline. It is freely soluble in water, in isotonic sodium chloride solution and in dextrose solutions. The structural formula is as shown below.

![Penicillin G Potassium Structural Formula](image)

Penicillin G Potassium Injection, USP (equivalent to 1, 2, or 3 million units of penicillin G) is a 50 mL premixed, iso-osmotic, sterile, nonpyrogenic, frozen solution for intravenous administration. Dextrose, USP has been added to the above dosages to adjust osmolality (approximately 2 g, 1.2 g, and 350 mg as dextrose hydrous, respectively). Sodium Citrate, USP has been added as a buffer (0.10 g, 0.20 g and 0.30 g as sodium citrate dihydrate, respectively). The pH has been adjusted with hydrochloric acid and may have been adjusted with sodium hydroxide. The pH is 6.5 (5.5 to 8.0). The solution is contained in a single dose GALAXY container (PL 2040 Plastic) and is intended for intravenous use after thawing to room temperature.

This GALAXY container is fabricated from a specially designed multilayer plastic (PL 2040). Solutions are in contact with the polyethylene layer of this container and can leach out certain chemical components of the plastic in very small amounts within the expiration period. The suitability of the plastic has been confirmed in tests in animals according to the USP biological tests for plastic containers as well as by tissue culture toxicity studies.
CLINICAL PHARMACOLOGY

After an intravenous infusion of penicillin G, peak serum concentrations are attained immediately after completion of the infusion. In a study of ten patients administered a single 5 million unit dose of penicillin G intravenously over 3-5 minutes, the mean serum concentrations were 400 mcg/mL, 273 mcg/mL and 3.0 mcg/mL at 5-6 minutes, 10 minutes and 4 hours after completion of the injection, respectively. In a separate study, five healthy adults were administered one million units of penicillin G intravenously, either as a bolus over 4 minutes or as an infusion over 60 minutes. The mean serum concentration eight minutes after completion of the bolus was 45 mcg/mL and eight minutes after completion of the infusion was 14.4 mcg/mL. The mean β-phase serum half-life of penicillin G administered by the intravenous route in ten patients with normal renal function was 42 minutes, with a range of 31-50 minutes.

The clearance of penicillin G in normal individuals is predominantly via the kidney. The renal clearance, which is extremely rapid, is the result of glomerular filtration and active tubular transport, with the latter route predominating. Urinary recovery is reported to be 58-85% of the administered dose. Renal clearance of penicillin is delayed in premature infants, neonates and in the elderly due to decreased renal function. The serum half-life of penicillin G correlates inversely with age and clearance of creatinine and ranges from 3.2 hours in infants 0 to 6 days of age to 1.4 hours in infants 14 days of age or older.

Nonrenal clearance includes hepatic metabolism and, to a lesser extent, biliary excretion. The latter routes become more important with renal impairment.

Probenecid blocks the renal tubular secretion of penicillin. Therefore, the concurrent administration of probenecid prolongs the elimination of penicillin G and, consequently, increases the serum concentrations.

Penicillin G is distributed to most areas of the body including lung, liver, kidney, muscle, bone and placenta. In the presence of inflammation, levels of penicillin in abscesses, middle ear, pleural, peritoneal and synovial fluids are sufficient to inhibit most susceptible bacteria. Penetration into the eye, brain, cerebrospinal fluid (CSF) or prostate is poor in the absence of inflammation. With inflamed meninges, the penetration of penicillin G into the CSF improves, such that the CSF/serum ratio is 2-6%. Inflammation also enhances its penetration into the pericardial fluid. Penicillin G is actively secreted into the bile resulting in levels at least 10 times those achieved simultaneously in serum. Penicillin G penetrates poorly into human polymorphonuclear leukocytes.

In the presence of impaired renal function, the β-phase serum half-life of penicillin G is prolonged. β-phase serum half-lives of one to two hours were observed in azotemic patients with serum creatinine concentrations <3 mg/100 mL and ranged as high as 20 hours in anuric patients. A linear relationship, including the lowest range of renal function, is found between the serum elimination rate constant and renal function as measured by creatinine clearance.

In patients with altered renal function, the presence of hepatic insufficiency further alters the elimination of penicillin G. In one study, the serum half-lives in two anuric patients (excreting <400 mL urine/day) were 7.2 and 10.1 hours. A totally anuric patient with terminal hepatic cirrhosis had a penicillin half-life of 30.5 hours, while another patient with anuria and liver disease had a serum half-life of 16.4 hours. The dosage of penicillin G should be reduced in patients with severe renal impairment, with additional modifications when hepatic disease accompanies the renal impairment. Hemodialysis has
been shown to reduce penicillin G serum levels.

**Microbiology**

Penicillin G is bactericidal against penicillin-susceptible microorganisms during the stage of active multiplication. It acts by inhibiting biosynthesis of cell-wall mucopeptide. It is not active against the penicillinase-producing bacteria, which include many strains of staphylococci. Penicillin G is highly active *in vitro* against staphylococci (except penicillinase-producing strains), streptococci (groups A, B, C, G, H, L and M), pneumococci and *Neisseria meningitidis*.

Other organisms susceptible *in vitro* to penicillin G are *Neisseria gonorrhoeae, Corynebacterium diphtheriae, Bacillus anthracis, clostridia, Actinomyces* species, *Spirillum minus, Streptobacillus moniliformis, Listeria monocytogenes*, and leptospira; *Treponema pallidum* is extremely susceptible. Some species of gram-negative bacilli were previously considered susceptible to very high intravenous doses of penicillin G (up to 80 million units/day) including some strains of *Escherichia coli, Proteus mirabilis, salmonella, shigella, Enterobacter aerogenes* (formerly *Aerobacter aerogenes*) and *Alcaligenes faecalis*. Penicillin G is no longer considered a drug of choice for infections caused by these organisms.

**Susceptibility Test 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: http://www.fda.gov/STIC.

**INDICATIONS AND USAGE**

**Therapy**

Penicillin G Potassium Injection, USP is indicated in the treatment of serious infections caused by susceptible strains of the designated microorganisms in the conditions listed below. Appropriate culture and susceptibility tests should be done before treatment in order to isolate and identify organisms causing infection and to determine their susceptibility to penicillin G.

Therapy with Penicillin G Potassium Injection, USP may be initiated before results of such tests are known when there is reason to believe the infection may involve any of the organisms listed below; however, once these results become available, appropriate therapy should be continued.

<table>
<thead>
<tr>
<th>CLINICAL INDICATION</th>
<th>INFECTING ORGANISM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Septicemia, empyema, pneumonia, pericarditis, endocarditis, meningitis</td>
<td><em>Streptococcus pyogenes</em> (group A β-hemolytic streptococcus), other β-hemolytic streptococci including groups C, H, G, L and M, <em>Streptococcus pneumoniae</em> and <em>Staphylococcus</em> species (non-penicillinase producing strains)</td>
</tr>
<tr>
<td>Disease/Infection</td>
<td>Organism</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Anthrax</td>
<td><em>Bacillus anthracis</em></td>
</tr>
<tr>
<td>Actinomycosis (cervico-facial disease and thoracic and abdominal disease)</td>
<td><em>Actinomyces israelii</em></td>
</tr>
<tr>
<td>Botulism (adjunctive therapy to antitoxin), gas gangrene, and tetanus</td>
<td><em>Clostridium species</em></td>
</tr>
<tr>
<td>Diphtheria (adjunctive therapy to antitoxin and prevention of the carrier state)</td>
<td><em>Corynebacterium diphtheriae</em></td>
</tr>
<tr>
<td>Erysipelothrix endocarditis</td>
<td><em>Erysipelothrix rhusiopathiae</em></td>
</tr>
<tr>
<td>Fusospirochetosis (severe infections of the oropharynx [Vincent’s], lower respiratory tract and genital area)</td>
<td><em>Fusobacterium</em> species and spirochetes</td>
</tr>
<tr>
<td>Listeria infections including meningitis and endocarditis</td>
<td><em>Listeria monocytogenes</em></td>
</tr>
<tr>
<td>Pasteurella infections including bacteremia and meningitis</td>
<td><em>Pasteurella multocida</em></td>
</tr>
<tr>
<td>Haverhill fever</td>
<td><em>Streptobacillus moniliformis</em></td>
</tr>
<tr>
<td>Rat bite fever</td>
<td><em>Spirillum minus</em> or <em>Streptobacillus moniliformis</em></td>
</tr>
<tr>
<td>Disseminated gonococcal infections</td>
<td><em>Neisseria gonorrhoeae</em> (penicillin-susceptible)</td>
</tr>
<tr>
<td>Syphilis (congenital and neurosyphilis)</td>
<td><em>Treponema pallidum</em></td>
</tr>
<tr>
<td>Meningococcal meningitis and/or septicemia</td>
<td><em>Neisseria meningitidis</em></td>
</tr>
<tr>
<td>Gram-negative bacillary infections (bacteremias)</td>
<td>Gram-negative bacillary organisms (i.e. <em>Enterobacteriaceae</em>)</td>
</tr>
</tbody>
</table>

**Penicillin G is not the drug of choice in the treatment of gram-negative bacillary infections.**

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Penicillin G Potassium Injection, USP and other antibacterial drugs, Penicillin G Potassium
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. Solutions containing dextrose may be contraindicated in patients with known allergy to corn or corn products.

**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. There have been reports of individuals with a history of penicillin hypersensitivity who have experienced severe reactions when treated with cephalosporins. Before initiating therapy with penicillin G, careful inquiry should be made concerning previous hypersensitivity reactions to penicillins, cephalosporins, or other allergens. If an allergic reaction occurs, penicillin G should be discontinued and appropriate therapy instituted. Serious anaphylactic reactions require immediate emergency treatment with epinephrine. Oxygen, intravenous steroids, and airway management, including intubation, should also be administered as indicated.

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

Penicillin should be used with caution in individuals with histories of significant allergies and/or asthma (see WARNINGS). 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. Penicillin G Potassium, USP by the intravenous route in high doses (above 10 million units) should be administered slowly because of the potential adverse effects of electrolyte imbalance from the potassium content of the penicillin. Penicillin G Potassium Injection, USP contains 1.7 mEq potassium and 1.02 mEq of sodium per million units. The use of antibiotics may promote overgrowth of nonsusceptible organisms, including fungi. Indwelling intravenous catheters encourage superinfections. Should superinfection occur, appropriate measures should be taken. When indicated, incision and drainage or other surgical procedures should be performed in conjunction with antibiotic therapy.

Prescribing Penicillin G Potassium 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**

Periodic assessment of organ system function, including frequent evaluation of electrolyte balance, hepatic, renal and hematopoietic systems, and cardiac and vascular status should be performed during prolonged therapy with high doses of intravenous penicillin G (see ADVERSE REACTIONS). If any impairment of function is suspected or known to exist, a reduction in the total dosage should be considered (see DOSAGE AND ADMINISTRATION). In suspected staphylococcal infections, proper laboratory studies, including susceptibility tests should be performed. All infections due to Group A beta-hemolytic streptococci should be treated for at least 10 days.

Patients being treated for gonococcal infection should have a serologic test for syphilis before receiving penicillin. All cases of penicillin treated syphilis should receive adequate follow-up including clinical and serological examinations. The recommended follow-up varies with the stage of syphilis being treated.

**Drug Interactions**

Bacteriostatic antibacterials (i.e., chloramphenicol, erythromycins, sulfonamides or tetracyclines) may antagonize the bactericidal effect of penicillin, and concurrent use of these drugs should be avoided. This has been documented in vitro; however, the clinical significance of this interaction is not well-documented.

Penicillin blood levels may be prolonged by concurrent administration of probenecid which blocks the renal tubular secretion of penicillins. Other drugs may compete with penicillin G for renal tubular secretion and thus prolong the serum half-life of penicillin. These drugs include: aspirin, phenylbutazone, sulfonamides, indomethacin, thiazide diuretics, furosemide and ethacrynic acid.

**Drug/Laboratory Test Interactions**

After treatment with penicillin G, a false-positive reaction for glucose in the urine may occur with Benedict’s solution, Fehling’s solution or CLINITEST tablet, but not with the enzyme-based tests, such as CLINISTIX and TES-TAPE.

Penicillin G has been associated with pseudoproteinuria by certain test methods.

**Carcinogenesis, Mutagenesis, Impairment of Fertility**

No long term animal studies have been conducted with this drug.
Pregnancy

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

Incompletely developed renal function in newborns may delay elimination of penicillin; therefore, appropriate reductions in the dosage and frequency of administration should be made in these patients. All newborns treated with penicillins should be monitored closely for clinical and laboratory evidence of toxic or adverse effects (see PRECAUTIONS).

Pediatric doses are generally determined on a weight basis and should be calculated for each patient individually. Recommended guidelines for pediatric dosages are presented in Dosage and Administration.

The potential for toxic effects in children from chemicals that may leach from the single dose premixed intravenous preparation in plastic containers has not been evaluated.

Geriatric Use

Clinical studies of Penicillin G 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.

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.

Penicillin G Injection contains 23.5 mg (1.02 mEq) of sodium per million units. At the usual recommended doses, patients would receive between 23.5 and 564 mg/day (1.02 and 24.5 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 Penicillin G Potassium...
Injections, USP should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When Penicillin G Potassium 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 Penicillin G Potassium 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 Jarisch-Herxheimer reaction is a systemic reaction, that may occur after the initiation of penicillin therapy in patients with syphilis or other spirochetal infections (i.e., Lyme disease and Relapsing fever). The reaction begins one to two hours after initiation of therapy and disappears within 12 to 24 hours. It is characterized by fever, chills, myalgias, headache, exacerbation of cutaneous lesions, tachycardia, hyperventilation, vasodilation with flushing and mild hypotension. The pathogenesis of the Herxheimer reaction may be due to the release from the spirochetes of heat-stable pyrogen.

**Hypersensitivity reactions:** The reported incidence of allergic reactions to all penicillins ranges from 0.7 to 10 percent in different studies (see WARNINGS). Sensitization is usually the result of previous treatment with a penicillin, but some individuals have had immediate reactions when first treated. In such cases, it is postulated that prior exposure to penicillin may have occurred via trace amounts present in milk or vaccines.

Two types of allergic reactions to penicillin 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 (see WARNINGS). Such immediate anaphylactic reactions are very rare and usually occur after parenteral therapy, but a few cases of anaphylaxis have been reported following 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, fever and, occasionally, laryngeal edema.

Delayed reactions to penicillin therapy usually occur within 1-2 weeks after initiation of therapy. Manifestations include serum sickness-like symptoms, i.e., fever, malaise, urticaria, myalgia, arthralgia, abdominal pain and various skin rashes, ranging from maculopapular eruptions to exfoliative dermatitis.

Contact dermatitis has been observed in individuals who prepare penicillin solutions.

**Gastrointestinal system:** Pseudomembranous colitis has been reported with the onset occurring during or after penicillin G treatment. Nausea, vomiting, stomatitis, black
or hairy tongue, and other symptoms of gastrointestinal irritation may occur, especially during oral therapy.

**Hematologic system:** Reactions include neutropenia, which resolves after penicillin therapy is discontinued; Coombs-positive hemolytic anemia, an uncommon reaction, occurs in patients treated with intravenous penicillin G in doses greater than 10 million units/day and who have previously received large doses of the drug; and with large doses of penicillin, a bleeding diathesis can occur secondary to platelet dysfunction.

**Metabolic:** Penicillin G Potassium, USP (1 million units contains 1.7 mEq of potassium ion) may cause serious and even fatal electrolyte disturbances, *i.e.*, hyperkalemia, when given intravenously in large doses.

**Nervous system:** Neurotoxic reactions including hyperreflexia, myoclonic twitches, seizures and coma have been reported following the administration of massive intravenous doses, and are more likely in patients with impaired renal function.

**Urogenital system:** Renal tubular damage and interstitial nephritis have been associated with large intravenous doses of penicillin G. Manifestations of this reaction may include fever, rash, eosinophilia, proteinuria, eosinophiluria, hematuria and a rise in serum urea nitrogen. Discontinuation of penicillin G results in resolution in the majority of patients.

**Local reactions:** Phlebitis and thrombophlebitis may occur, and pain at the injection site has been reported with intravenous administration.

**OVERDOSE**

Dose related toxicity may arise with the use of massive doses of intravenous penicillins (40 to 100 million units per day), particularly in patients with severe renal impairment (see PRECAUTIONS). The manifestations may include agitation, confusion, asterixis, hallucinations, stupor, coma, multifocal myoclonus, seizures and encephalopathy. Hyperkalemia is also possible (see ADVERSE REACTIONS-Metabolic).

In case of overdosage, discontinue penicillin, treat symptomatically and institute supportive measures as required. If necessary, hemodialysis may be used to reduce blood levels of Penicillin G, although the degree of effectiveness of this procedure is questionable.

**DOSAGE AND ADMINISTRATION**

Penicillin G Potassium Injection, USP should be administered by intravenous infusion. The usual dose recommendations are as follows:

**Adult patients**

(*) Because of its short half-life, Penicillin G is administered in divided doses, usually every 4-6 hours with the exception of meningococcal meningitis/septicemia, *i.e.*, every 2 hours.

<table>
<thead>
<tr>
<th>CLINICAL INDICATION</th>
<th>DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious infections due to susceptible strains</td>
<td>12 to 24 million units/day depending on the</td>
</tr>
</tbody>
</table>
of streptococci (including *S. pneumoniae*)
- septicemia, empyema, pneumonia, pericarditis, endocarditis and meningitis

Serious infections due to susceptible strains of staphylococci
- septicemia, empyema, pneumonia, pericarditis, endocarditis and meningitis

<table>
<thead>
<tr>
<th>Disease</th>
<th>Dose and Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthrax</td>
<td>Minimum of 8 million units/day in divided doses every 6 hours. Higher doses may be required depending on susceptibility of organism.</td>
</tr>
<tr>
<td>Actinomycosis</td>
<td></td>
</tr>
<tr>
<td>Cervicofacial disease</td>
<td>1 to 6 million units/day(*)</td>
</tr>
<tr>
<td>Thoracic and abdominal disease</td>
<td>10 to 20 million units/day(*)</td>
</tr>
<tr>
<td>Clostridial infections</td>
<td></td>
</tr>
<tr>
<td>Botulism (adjunctive therapy to antitoxin)</td>
<td>20 million units/day(*)</td>
</tr>
<tr>
<td>Gas gangrene (debridement and/or surgery as indicated)</td>
<td></td>
</tr>
<tr>
<td>Tetanus (adjunctive therapy to human tetanus immune globulin)</td>
<td></td>
</tr>
<tr>
<td>Diphtheria (adjunctive therapy to antitoxin and for the prevention of the carrier state)</td>
<td>2 to 3 million units/day in divided doses for 10-12 days(*)</td>
</tr>
<tr>
<td>Erysipelothrix endocarditis</td>
<td>12 to 20 million units/day for 4-6 weeks(*)</td>
</tr>
<tr>
<td>Fusospirochetosis (severe infections of the oropharynx [Vincent’s], lower respiratory tract and genital area)</td>
<td>5 to 10 million units/day(*)</td>
</tr>
<tr>
<td>Listeria infections</td>
<td></td>
</tr>
<tr>
<td>Meningitis</td>
<td>15 to 20 million units/day for 2 weeks(*)</td>
</tr>
<tr>
<td>Endocarditis</td>
<td>15 to 20 million units/day for 4 weeks(*)</td>
</tr>
<tr>
<td>Pasteurella infections including bacteremia and meningitis</td>
<td>4 to 6 million units/day for 2 weeks(*)</td>
</tr>
<tr>
<td>Haverhill fever; Rat-bite fever</td>
<td>12 to 20 million units/day for 3-4 weeks(*)</td>
</tr>
<tr>
<td>Disseminated gonococcal infections, such as meningitis endocarditis, arthritis, etc., caused by penicillin - susceptible organisms</td>
<td>10 million units/day(*); duration depends on the type of infection</td>
</tr>
<tr>
<td>Syphilis (neurosyphilis)</td>
<td>12 to 24 million units/day, as 2-4 MU every 4 hours for 10-14 days; many experts</td>
</tr>
</tbody>
</table>
**Meningococcal meningitis and/or septicemia**

24 million units/day as 2 million units every 2 hours

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**Pediatric patients**

This product should not be administered to patients requiring less than one million units per dose

(see PRECAUTIONS-Pediatric Use).

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<table>
<thead>
<tr>
<th><strong>CLINICAL INDICATION</strong></th>
<th><strong>DOSAGE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious infections, such as pneumonia and endocarditis, due to susceptible strains of streptococci (including <em>S. pneumoniae</em>) and meningococcus</td>
<td>150,000-300,000 units/kg/day divided in equal doses every 4-6 hours; duration depends on infecting organism and type of infection</td>
</tr>
<tr>
<td>Meningitis caused by susceptible strains of pneumococcus and meningococcus</td>
<td>250,000 units/kg/day divided in equal doses every 4 hours for 7-14 days depending on the infecting organism (maximum dose of 12-20 million units/day)</td>
</tr>
<tr>
<td>Disseminated Gonococcal Infections (penicillin-susceptible strains)</td>
<td><strong>Weight less than 45 kg:</strong></td>
</tr>
<tr>
<td>Arthritis</td>
<td>100,000 units/kg/day in 4 equally divided doses for 7-10 days</td>
</tr>
<tr>
<td>Meningitis</td>
<td>250,000 units/kg/day in equal doses every 4 hours for 10-14 days</td>
</tr>
<tr>
<td>Endocarditis</td>
<td>250,000 units/kg/day in equal doses every 4 hours for 4 weeks</td>
</tr>
<tr>
<td>Arthritis, meningitis, endocarditis</td>
<td><strong>Weight 45 kg or greater:</strong> 10 million units/day in 4 equally divided doses with the duration of therapy depending on the type of infection</td>
</tr>
<tr>
<td>Syphilis (congenital and neurosyphilis) after the newborn period</td>
<td>200,000-300,000 units/kg/day (administered as 50,000 units/kg every 4-6 hours) for 10-14 days</td>
</tr>
<tr>
<td>Diphtheria (adjunctive therapy to antitoxin)</td>
<td>150,000-250,000 units/kg/day in equal...</td>
</tr>
</tbody>
</table>
Renal Impairment: Penicillin G is relatively nontoxic, and dosage adjustments are generally required only in cases of severe renal impairment. The recommended dosage regimens are as follows:

Creatinine clearance less than 10 mL/min/1.73m²; administer a full loading dose (see recommended dosages in the tables above) followed by one-half of the loading dose every 8-10 hours.

Uremic patients with a creatinine clearance greater than 10 mL/min/1.73m²; administer a full loading dose (see recommended dosages in the tables above) followed by one-half of the loading dose every 4-5 hours. Additional dosage modifications should be made in patients with hepatic disease and renal impairment.

For most acute infections, treatment should be continued for at least 48 to 72 hours after the patient becomes asymptomatic. Antibiotic therapy for Group A β-hemolytic streptococcal infections should be maintained for at least 10 days to reduce the risk of rheumatic fever. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit.

DIRECTIONS FOR USE OF GALAXY CONTAINER (PL 2040 PLASTIC)

Penicillin G Potassium Injection, USP in GALAXY Container (PL 2040 Plastic) is for intravenous administration using sterile equipment.

Storage

Store in a freezer capable of maintaining a temperature of -20°C/-4°F.

Thawing of Plastic Container

Thaw frozen container at room temperature (25°C/77°F) or in a refrigerator (5°C/41°F). DO NOT FORCE THAW BY IMMERSION IN WATER BATHS OR BY MICROWAVE IRRADIATION.

Check for minute leaks by squeezing container firmly. If leaks are detected, discard solution as sterility may be impaired.

Do not add supplementary medication.

Visually inspect the container. If the outlet port protector is damaged, detached, or not present, discard container as solution path sterility may be impaired. Components of the solution may precipitate in the frozen state and will dissolve upon reaching room temperature with little or no agitation. Potency is not affected. Agitate after solution has reached room temperature. If after visual inspection the solution remains cloudy or if an insoluble precipitate is noted, or if any seals are not intact, the container should be discarded. The thawed solution is stable for 14 days under refrigeration (5°C/41°F) or for 24 hours at room temperature (25°C/77°F). Do not refreeze thawed antibiotics.
CAUTION: Do not use plastic containers in series connections. Such use could result in air embolism due to residual air being drawn from the primary container before administration of the fluid from the secondary container is complete.

**Preparation for Intravenous Administration:**

1. Suspend container from eyelet support.
2. Remove protector from outlet port at bottom of container.
3. Attach administration set. Refer to complete directions accompanying set.

**HOW SUPPLIED/STORAGE AND HANDLING**

Penicillin G Potassium Injection, USP is supplied as a premixed frozen iso-osmotic solution in 50 mL single dose GALAXY containers (PL 2040 Plastic) as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>NDC</th>
<th>Units per Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>2G3542</td>
<td>0338-1021-41</td>
<td>1,000,000 units/50 mL (20,000 units/mL) Penicillin G</td>
</tr>
<tr>
<td>2G3543</td>
<td>0338-1023-41</td>
<td>2,000,000 units/50 mL (40,000 units/mL) Penicillin G</td>
</tr>
<tr>
<td>2G3544</td>
<td>0338-1025-41</td>
<td>3,000,000 units/50 mL (60,000 units/mL) Penicillin G</td>
</tr>
</tbody>
</table>

Store at or below -20°C/-4°F. [See DIRECTIONS FOR USE OF GALAXY CONTAINER (PL 2040 Plastic).]

Handle frozen product containers with care. Product containers may be fragile in the frozen state.

**Baxter Healthcare Corporation**
Deerfield, IL 60015 USA

Printed in USA

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Clinistix is a registered trademark of Ascensia Diabetes Care Holdings AG

Clinitest is a trademark of Siemens Healthcare Diagnostics Inc.

07-19-03-154

Rev. May 2021

**PRINCIPAL DISPLAY PANEL - PACKAGING LABELING**
Penicillin G Potassium Injection, USP
1,000,000 units / 50mL
(20,000 units / mL)

Each 50 mL contains: Penicillin G Potassium, USP equivalent to 1,000,000 units Penicillin G with approx. 2 g Dextrose Hydrous, USP added to adjust osmolality and 100 mg Sodium Citrate, USP (0.10 g as sodium citrate dihydrate) added as a buffer. pH adjusted with hydrochloric acid and may have been adjusted with sodium hydroxide. pH 6.5 (5.5 to 8.0).

Dosage: Intravenously as directed by a physician. See insert.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity. Rx only

Store at or below -20°C/-4°F. Thaw at room temperature (25°C/77°F) or under refrigeration (5°C/41°F). DO NOT FORCE THAW BY IMMERSION IN WATER BATHS OR BY MICROWAVE IRRADIATION. Thawed solution is stable for 14 days under refrigeration or 24 hours at room temperature. Do not refreeze.

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Baxter Healthcare Corporation
Deerfield, IL 60015 USA

PL 2040 Plastic

07-34-00-1033

Container Label
(20,000 units / mL)

GALAXY
Single-Dose
Container

50 mL
Iso-osmotic

NDC 0338-1021-41
Code 2G3542
Sterile Nonpyrogenic

Each 50 mL contains: Penicillin G Potassium, USP equivalent to 1,000,000 units Penicillin G with approx. 2 g Dextrose Hydrous, USP added to adjust osmolality and 100 mg Sodium Citrate, USP (0.10 g as sodium citrate dihydrate) added as a buffer. pH adjusted with hydrochloric acid and may have been adjusted with sodium hydroxide. pH 6.5 (5.5 to 8.0).

Dosage: Intravenously as directed by a physician. See insert.
Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity. Rx only

Store at or below -20°C/-4°F. Thaw at room temperature (25°C/77°F) or under refrigeration (5°C/41°F). DO NOT FORCE THAW BY IMMERSION IN WATER BATHS OR BY MICROWAVE IRRADIATION. Thawed solution is stable for 14 days under refrigeration or 24 hours at room temperature. Do not refreeze.

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PL 2040 Plastic
07-34-00-1033

*BAR CODE
POSITION ONLY

303381021412
Carton Label

Thaw at room temperature (25°C/77°F) or under refrigeration (5°C/41°F). DO NOT FORCE THAW BY IMMERSION IN WATER BATHS OR BY MICROWAVE IRRADIATION. Thawed solution is stable for 14 days under refrigeration or 24 hours at room temperature. Do not refreeze.

Handle frozen product containers with care. Product containers may be fragile in the frozen state.

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PL 2040 Plastic

07-04-00-0361

Baxter Logo

Penicillin G Potassium Injection, USP
12 - 50 mL Single Dose Containers Iso-osmotic
Store at or below -20°C/-4°F. Do not refreeze.

1,000,000 units / 50mL
(20,000 units / mL)

Baxter Healthcare Corporation
Deerfield, IL 60015 USA

NDC 0338-1021-41
Code 2G3542

*FOR BAR CODE POSITION ONLY
(01) 20303381021416

GALAXY Container
Sterile Nonpyrogenic

Each 50 mL contains: Penicillin G Potassium, USP equivalent to 1,000,000 units Penicillin G with approx. 2 g Dextrose Hydrous, USP added to adjust osmolality and 100 mg Sodium Citrate, USP (0.10 g as sodium citrate dihydrate) added as a buffer. pH adjusted with hydrochloric acid and may have been adjusted with sodium hydroxide. pH 6.5 (5.5 to 8.0).
Dosage: Intravenously as directed by a physician. See insert.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks by squeezing thawed bag firmly. If leaks are found, discard bag as sterility may be impaired. Do not use unless solution is clear. Rx only

Penicillin G Potassium Injection, USP
2,000,000 units / 50mL
(40,000 units / mL)

GALAXY 50 mL Iso-osmotic
Single-Dose Container
Sterile Nonpyrogenic

NDC 0338-1023-41
Code 2G3543

Each 50 mL contains: Penicillin G Potassium, USP equivalent to 2,000,000 units Penicillin G with approx. 1.2 g Dextrose Hydrous, USP added to adjust osmolarity and 200 mg Sodium Citrate, USP (0.20 g as sodium citrate dihydrate) added as a buffer. pH adjusted with hydrochloric acid and may have been adjusted with sodium hydroxide. pH 6.5 (5.5 to 8.0).

Dosage: Intravenously as directed by a physician. See insert.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity. Rx only

Store at or below -20°C/-4°F. Thaw at room temperature (25°C/77°F) or under refrigeration (5°C/41°F). DO NOT FORCE THAW BY IMMERSION IN WATER BATHS OR BY MICROWAVE IRRADIATION. Thawed solution is stable for 14 days under refrigeration or 24 hours at room temperature. Do not refreeze.

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Baxter Healthcare Corporation
Deerfield, IL 60015 USA

PL 2040 Plastic
07-34-00-1034
Penicillin G Potassium Injection, USP  
2,000,000 units / 50mL  
(40,000 units / mL)

GALAXY  
Single-Dose  
Container  
50 mL  
Iso-osmotic

NDC 0338-1023-41  
Code 2G3543  
Sterile Nonpyrogenic

Each 50 mL contains: Penicillin G Potassium, USP equivalent to 2,000,000 units Penicillin G with approx. 1.2 g Dextrose Hydrous, USP added to adjust osmolality and 200 mg Sodium Citrate, USP (0.20 g as sodium citrate dihydrate) added as a buffer. pH adjusted with hydrochloric acid and may have been adjusted with sodium hydroxide. pH 6.5 (5.5 to 8.0).

Dosage: Intravenously as directed by a physician. See insert.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity. Rx only  
Store at or below -20°C/-4°F. Thaw at room temperature (25°C/77°F) or under refrigeration (5°C/41°F). **DO NOT FORCE THAW BY IMMERSION IN WATER BATHS OR BY MICROWAVE IRRADIATION.** Thawed solution is stable for 14 days under refrigeration or 24 hours at room temperature. **Do not refreeze.**

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**Baxter Healthcare Corporation**  
Deerfield, IL 60015 USA  
PL 2040 Plastic
Carton Label

Thaw at room temperature (25°C/77°F) or under refrigeration (5°C/41°F). DO NOT FORCE THAW BY IMMERSION IN WATER BATHS OR BY MICROWAVE IRRADIATION. Thawed solution is stable for 14 days under refrigeration or 24 hours at room temperature. Do not refreeze.

Handle frozen product containers with care. Product containers may be fragile in the frozen state.

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PL 2040 Plastic

07-04-00-0362

Baxter Logo

Penicillin G Potassium Injection, USP
12 - 50 mL Single Dose Containers Iso-osmotic
Store at or below -20°C/-4°F. Do not refreeze.
Each 50 mL contains: Penicillin G Potassium, USP equivalent to 2,000,000 units Penicillin G with approx. 1.2 g Dextrose.

Hydrous, USP added to adjust osmolality and 200 mg Sodium Citrate, USP (0.20 g as sodium citrate dihydrate) added as a buffer. pH adjusted with hydrochloric acid and may have been adjusted with sodium hydroxide. pH 6.5 (5.5 to 8.0).

Dosage: Intravenously as directed by a physician. See insert.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks by squeezing thawed bag firmly. If leaks are found, discard bag as sterility may be impaired. Do not use unless solution is clear. **Rx only**
Penicillin G Potassium Injection, USP
3,000,000 units / 50mL
(60,000 units / mL)

GALAXY
Single-Dose Container

50 mL
Iso-osmotic

NDC 0338-1025-41
Code 2G3544
Sterile Nonpyrogenic

Each 50 mL contains: Penicillin G Potassium, USP equivalent to 3,000,000 units Penicillin G with approx. 350 mg Dextrose Hydrous, USP added to adjust osmolality and 300 mg Sodium Citrate, USP (0.30 g as sodium citrate dihydrate) added as a buffer, pH adjusted with hydrochloric acid and may have been adjusted with sodium hydroxide. pH 6.5 (5.5 to 8.0).

Dosage: Intravenously as directed by a physician. See insert.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity. Rx only

Store at or below -20°C/4°F. Thaw at room temperature (25°C/77°F) or under refrigeration (5°C/41°F). DO NOT FORCE THAW BY IMMERSION IN WATER BATHS OR BY MICROWAVE IRRADIATION. Thawed solution is stable for 14 days under refrigeration or 24 hours at room temperature. Do not refreeze.

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Baxter Healthcare Corporation
Deerfield, IL 60015 USA

PL 2040 Plastic
07-34-00-1035

*BAR CODE POSITION ONLY

303381025410

Container Label

Baxter Logo
Penicillin G Potassium Injection, USP
3,000,000 units / 50mL
(60,000 units / mL)

**GALAXY**

**Single-Dose Container**

**50 mL**

**Iso-osmotic**

**NDC 0338-1025-41**

**Code 2G3544**

**Sterile Nonpyrogenic**

Each 50 mL contains: Penicillin G Potassium, USP equivalent to 3,000,000 units Penicillin G with approx. 350 mg Dextrose Hydrous, USP added to adjust osmolality and 300 mg Sodium Citrate, USP (0.30 g as sodium citrate dihydrate) added as a buffer. pH adjusted with hydrochloric acid and may have been adjusted with sodium hydroxide. pH 6.5 (5.5 to 8.0).

Dosage: Intravenously as directed by a physician. See insert.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity. **Rx only**

Store at or below -20°C/-4°F. Thaw at room temperature (25°C/77°F) or under refrigeration (5°C/41°F). **DO NOT FORCE THAW BY IMMERSSION IN WATER BATHS OR BY MICROWAVE IRRADIATION.** Thawed solution is stable for 14 days under refrigeration or 24 hours at room temperature. **Do not refreeze.**

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**Baxter Healthcare Corporation**

Deerfield, IL 60015 USA

PL 2040 Plastic

07-34-00-1035

*BAR CODE POSITION ONLY*

303381025410
Carton Label

Thaw at room temperature (25°C/77°F) or under refrigeration (5°C/41°F). DO NOT FORCE THAW BY IMMERSION IN WATER BATHS OR BY MICROWAVE IRRADIATION. Thawed solution is stable for 14 days under refrigeration or 24 hours at room temperature. Do not refreeze.

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PL 2040 Plastic

07-04-00-0363

Baxter Logo

Penicillin G Potassium Injection, USP
12 - 50 mL Single Dose Containers Iso-osmotic
Store at or below -20°C/-4°F. Do not refreeze.

3,000,000 units / 50mL
(60,000 units / mL)

Baxter Healthcare Corporation
Deerfield, IL 60015 USA

NDC 0338-1025-41
Code 2G3544

*FOR BAR CODE POSITION ONLY
(01) 20303381025414

GALAXY Container
Sterile Nonpyrogenic

Each 50 mL contains: Penicillin G Potassium, USP equivalent to 3,000,000 units Penicillin G with approx. 350 mg Dextrose Hydrous, USP added to adjust osmolality and 300 mg Sodium Citrate, USP (0.30 g as sodium citrate dihydrate) added as a buffer, pH adjusted with hydrochloric acid and may have been adjusted with sodium hydroxide, pH 6.5 (5.5 to 8.0).

Dosage: Intravenously as directed by a physician. See insert.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks by squeezing thawed bag firmly. If leaks are found, discard bag as sterility may be impaired. Do not use unless solution is clear. Rx only
with hydrochloric acid and may have been adjusted with sodium hydroxide. pH 6.5 (5.5 to 8.0).

Dosage: Intravenously as directed by a physician. See insert.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks by squeezing thawed bag firmly. If leaks are found, discard bag as sterility may be impaired. Do not use unless solution is clear. **Rx only**
## Product Information

**Product Type**: HUMAN PRESCRIPTION DRUG  
**Item Code (Source)**: NDC:0338-1023

**Route of Administration**: INTRAVENOUS

### Active Ingredient/Active Moiety

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>PENICILLIN G POTASSIUM (UNII: VL775ZTH4C)</td>
<td>PENICILLIN G</td>
<td>2000000 [iU] in 50 mL</td>
</tr>
</tbody>
</table>

### Inactive Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEXTROSE MONOHYDRATE (UNII: LX22YL083G)</td>
<td>1.2 g in 50 mL</td>
</tr>
<tr>
<td>TRISODIUM CITRATE DIHYDRATE (UNII: B22547B95K)</td>
<td>200 mg in 50 mL</td>
</tr>
<tr>
<td>HYDROCHLORIC ACID (UNII: QTT17582CB)</td>
<td></td>
</tr>
<tr>
<td>SODIUM HYDROXIDE (UNII: 55X04QC32I)</td>
<td></td>
</tr>
<tr>
<td>WATER (UNII: 059QF0K00R)</td>
<td></td>
</tr>
</tbody>
</table>

### Packaging

**#**: 1  
**Item Code**: NDC:0338-1023-41  
**Package Description**: 50 mL in 1 BAG; Type 0: Not a Combination Product  
**Marketing Start Date**: 06/25/1990

### Marketing Information

<table>
<thead>
<tr>
<th>Marketing Category</th>
<th>Application Number or Monograph Citation</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
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<tbody>
<tr>
<td>NDA</td>
<td>NDA050638</td>
<td>06/25/1990</td>
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</table>

---

## PENICILLIN G POTASSIUM

penicillin g injection, solution

### Product Information

**Product Type**: HUMAN PRESCRIPTION DRUG  
**Item Code (Source)**: NDC:0338-1021

**Route of Administration**: INTRAVENOUS

### Active Ingredient/Active Moiety

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<tr>
<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
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</thead>
<tbody>
<tr>
<td>PENICILLIN G POTASSIUM (UNII: VL775ZTH4C)</td>
<td>PENICILLIN G</td>
<td>1000000 [iU]</td>
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</table>
### Inactive Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
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<tbody>
<tr>
<td>DEXTROSE MONOHYDRATE (UNII: LX22YL083G)</td>
<td>2 g in 50 mL</td>
</tr>
<tr>
<td>TRISODIUM CITRATE DIHYDRATE (UNII: B22547B95K)</td>
<td>100 mg in 50 mL</td>
</tr>
<tr>
<td>HYDROCHLORIC ACID (UNII: QTT17582CB)</td>
<td></td>
</tr>
<tr>
<td>SODIUM HYDROXIDE (UNII: 55X04QC32I)</td>
<td></td>
</tr>
<tr>
<td>WATER (UNII: 059QF0KO0R)</td>
<td></td>
</tr>
</tbody>
</table>

### Packaging

<table>
<thead>
<tr>
<th>#</th>
<th>Item Code</th>
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<th>Marketing Start Date</th>
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<td>50 mL in 1 BAG; Type 0: Not a Combination Product</td>
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### Marketing Information

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<td>NDA050638</td>
<td>06/25/1990</td>
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**Labeler** - Baxter Healthcare Corporation (005083209)

**Establishment**

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Corporation</td>
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Revised: 5/2021