

CLINDAMYCIN PHOSPHATE- clindamycin phosphate injection, solution
Baxter Healthcare Corporation

CLINDAMYCIN INJECTION USP IN 5% DEXTROSE

To reduce the development of drug-resistant bacteria and maintain the effectiveness of CLINDAMYCIN INJECTION USP IN 5% DEXTROSE and other antibacterial drugs, CLINDAMYCIN INJECTION USP IN 5% DEXTROSE should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria.

Sterile Solution is for Intravenous Use

CLINDAMYCIN INJECTION USP IN 5% DEXTROSE in the GALAXY bag is For Intravenous Use Only

WARNING

Clostridioides difficile-associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including Clindamycin Injection USP in 5% Dextrose 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*.

Because Clindamycin Injection USP in 5% Dextrose therapy has been associated with severe colitis which may end fatally, it should be reserved for serious infections where less toxic antimicrobial agents are inappropriate, as described in the **INDICATIONS AND USAGE** section. It should not be used in patients with nonbacterial infections such as most upper respiratory tract infections. *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.

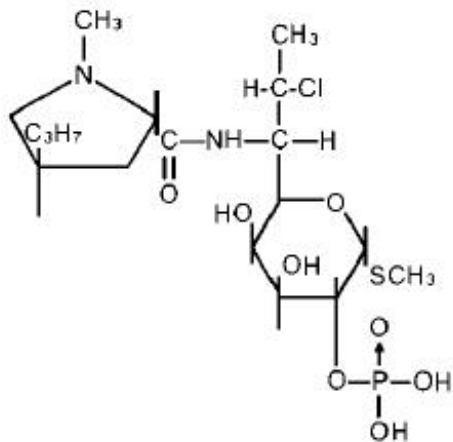
DESCRIPTION

Clindamycin Injection USP in 5% Dextrose in the GALAXY plastic container for intravenous use is composed of clindamycin phosphate equivalent to 300, 600 and 900 mg of clindamycin premixed with 5% dextrose as a sterile solution. Disodium edetate has been added at a concentration of 0.04 mg/mL. The pH has been adjusted with sodium hydroxide and/or hydrochloric acid. Clindamycin is a semisynthetic antibiotic produced by a 7(S)-chloro-substitution of the 7(R)-hydroxyl group of the parent compound lincomycin.

The chemical name of clindamycin phosphate is L-threo- α -D-galacto-Octopyranoside, methyl-7-chloro-6,7,8-trideoxy-6-[[[(1-methyl-4-propyl-2-pyrrolidiny]l)carbonyl]amino]-1-thio-, 2-(dihydrogen phosphate), (2S-trans)-.

The molecular formula is C₁₈H₃₄ClN₂O₈PS and the molecular weight is 504.96.

The structural formula is represented below:



Clindamycin Injection USP in 5% Dextrose in the GALAXY plastic containers is for Intravenous Use. The plastic container is fabricated from a specially designed multilayer plastic, PL 2501. Solutions in contact with the plastic container can leach out certain of its chemical components 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

Distribution

Biologically inactive clindamycin phosphate is converted to active clindamycin. By the end of short-term intravenous infusion, peak serum concentrations of active clindamycin are reached.

After intramuscular injection of clindamycin phosphate, peak concentrations of active clindamycin are reached within 3 hours in adults and 1 hour in pediatric patients. Serum concentration-time curves may be constructed from IV peak serum concentrations as given in Table 1 by application of elimination half-lives (see **Excretion**).

Serum concentrations of clindamycin can be maintained above the in vitro minimum inhibitory concentrations for most indicated organisms by administration of clindamycin phosphate every 8 to 12 hours in adults and every 6 to 8 hours in pediatric patients, or by continuous intravenous infusion. An equilibrium state is reached by the third dose.

No significant concentrations of clindamycin are attained in the cerebrospinal fluid even in the presence of inflamed meninges.

Metabolism

In vitro studies in human liver and intestinal microsomes indicated that clindamycin is predominantly metabolized by Cytochrome P450 3A4 (CYP3A4), with minor contribution from CYP3A5, to form clindamycin sulfoxide and a minor metabolite, N-desmethylclindamycin.

Excretion

Biologically inactive clindamycin phosphate disappears from the serum with 6 minutes of the average elimination half-life; however, the average serum elimination half-life of active clindamycin is about 3 hours in adults and 2½ hours in pediatric patients.

Specific Populations

Patients with Renal/Hepatic Impairment

The elimination half-life of clindamycin is increased slightly in patients with markedly reduced renal or hepatic function. Hemodialysis and peritoneal dialysis are not effective in removing clindamycin from the serum. Dosage schedules do not need to be modified in patients with renal or hepatic disease.

Geriatric Patients

Pharmacokinetic studies in elderly volunteers (61-79 years) and younger adults (18-39 years) indicate that age alone does not alter clindamycin pharmacokinetics (clearance, elimination half-life, volume of distribution, and area under the serum concentration-time curve) after IV administration of clindamycin phosphate. After oral administration of clindamycin hydrochloride, the average elimination half-life is increased to approximately 4.0 hours (range 3.4-5.1 h) in the elderly, compared to 3.2 hours (range 2.1-4.2 h) in younger adults. The extent of absorption, however, is not different between age groups and no dosage alteration is necessary for the elderly with normal hepatic function and normal (age-adjusted) renal function¹.

Pharmacokinetics in Pediatric Patients with PMA ≤ 32 weeks, or > 32 to ≤ 40 weeks

Systemic clearance (CL) in premature infants increases with increases in bodyweight (kg) and post-menstrual age (PMA). The dosing regimens for pediatric patients ≤ 32 weeks PMA (5 mg/kg) and > 32 to ≤ 40 weeks PMA (7 mg/kg), both administered intravenously every 8 hours, achieve exposures comparable to therapeutic exposures in adults (weighing 70 kg) administered clindamycin 600 mg every 8 hours (Table 1).

Table 1: Predicted Drug Exposure (Mean ± SD) of Clindamycin in Adults and in Pediatric Patients with PMA ≤ 32 weeks, or > 32 to ≤ 40 weeks

Age	Adult (70 kg)	PMA ≤ 32 weeks	PMA > 32 - ≤ 40 weeks
Dose (every 8 hours)	600 mg	5 mg/kg	7 mg/kg
AUC_{SS,0-8 hour} (mcg.h/mL)	50.5 (30.95)	52.5 (17.0) _–	55.9 (23.55)
C_{max,ss} (mcg/mL)	12.0 (3.49)	9.0 (2.02)	10.5 (2.79)

C_{min,ss} (mcg/mL)	3.1 (3.34)	4.6 (2.00)	4.4 (2.77)
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PMA: post-menstrual age; AUC_{SS,0-8hour}: area under the concentration-time curve during a dosing interval at steady state; C_{max,ss}: maximum drug concentration at steady state; C_{min,ss}: minimum or trough drug concentration at steady state

Obese Pediatric Patients Aged 2 to Less than 18 Years and Obese Adults Aged 18 to 20 Years

An analysis of pharmacokinetic data in obese pediatric patients aged 2 to less than 18 years and obese adults aged 18 to 20 years demonstrated that clindamycin clearance and volume of distribution, normalized by total body weight, are comparable regardless of obesity.

Microbiology

Mechanism of Action

Clindamycin inhibits bacterial protein synthesis by binding to the 23S RNA of the 50S subunit of the ribosome. Clindamycin is bacteriostatic.

Resistance

Resistance to clindamycin is most often caused by modification of specific bases of the 23S ribosomal RNA. Cross-resistance between clindamycin and lincomycin is complete. Because the binding sites for these antibacterial drugs overlap, cross-resistance is sometimes observed among lincosamides, macrolides and streptogramin B. Macrolide-inducible resistance to clindamycin occurs in some isolates of macrolide-resistant bacteria. Macrolide-resistant isolates of staphylococci and beta-hemolytic streptococci should be screened for induction of clindamycin resistance using the D-zone test.

Antimicrobial Activity

Clindamycin has been shown to be active against most of the isolates of the following microorganisms, both in vitro and in clinical infections [see **INDICATIONS AND USAGE**]:

Gram-positive bacteria

Staphylococcus aureus (methicillin-susceptible strains)
Streptococcus pneumoniae (penicillin-susceptible strains)
Streptococcus pyogenes

Anaerobic bacteria

Clostridium perfringens
Fusobacterium necrophorum
Fusobacterium nucleatum
Peptostreptococcus anaerobius
Prevotella melaninogenica

The following in vitro data are available, but their clinical significance is unknown. At least 90 percent of the following bacteria exhibit an *in vitro* minimum inhibitory concentration (MIC) less than or equal to the susceptible breakpoint for clindamycin against isolates of

a similar genus or organism group. However, the efficacy of clindamycin in treating clinical infections due to these bacteria has not been established in adequate and well-controlled clinical trials.

Gram-positive bacteria

Staphylococcus epidermidis (methicillin-susceptible strains)
Streptococcus agalactiae
Streptococcus anginosus
Streptococcus mitis
Streptococcus oralis

Anaerobic bacteria

Actinomyces israelii
Clostridium clostridioforme
Eggerthella lenta
Finexgoldia (Peptostreptococcus) magna
Micromonas (Peptostreptococcus) micros
Prevotella bivia
Prevotella intermedia
Cutibacterium acnes

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

Clindamycin Injection USP in 5% Dextrose products are indicated in the treatment of serious infections caused by susceptible anaerobic bacteria.

Clindamycin Injection USP in 5% Dextrose products are also indicated in the treatment of serious infections due to susceptible strains of streptococci, pneumococci, and staphylococci. Its use should be reserved for penicillin-allergic patients or other patients for whom, in the judgment of the physician, a penicillin is inappropriate. Because of the risk of antibiotic-associated pseudomembranous colitis, as described in the **BOXED WARNING**, before selecting clindamycin the physician should consider the nature of the infection and the suitability of less toxic alternatives (e.g., erythromycin).

Bacteriologic studies should be performed to determine the causative organisms and their susceptibility to clindamycin.

Indicated surgical procedures should be performed in conjunction with antibiotic therapy.

Clindamycin Injection USP in 5% Dextrose is indicated in the treatment of serious infections caused by susceptible strains of the designated organisms in the conditions listed below:

Lower respiratory tract infections including pneumonia, empyema, and lung abscess

caused by anaerobes, *Streptococcus pneumoniae*, other streptococci (except *E. faecalis*), and *Staphylococcus aureus*.

Skin and skin structure infections caused by *Streptococcus pyogenes*, *Staphylococcus aureus*, and anaerobes.

Gynecological infections including endometritis, nongonococcal tubo-ovarian abscess, pelvic cellulitis, and postsurgical vaginal cuff infection caused by susceptible anaerobes.

Intra-abdominal infections including peritonitis and intra-abdominal abscess caused by susceptible anaerobic organisms.

Septicemia caused by *Staphylococcus aureus*, streptococci (except *Enterococcus faecalis*), and susceptible anaerobes.

Bone and joint infections including acute hematogenous osteomyelitis caused by *Staphylococcus aureus* and as adjunctive therapy in the surgical treatment of chronic bone and joint infections due to susceptible organisms.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Clindamycin Injection USP in 5% Dextrose and other antibacterial drugs, Clindamycin Injection USP in 5% Dextrose 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

This drug is contraindicated in individuals with a history of hypersensitivity to preparations containing clindamycin or lincomycin.

WARNINGS

See **BOXED WARNING**.

***Clostridioides difficile*-Associated Diarrhea**

Clostridioides difficile-associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including Clindamycin Injection USP in 5% Dextrose, 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.

Anaphylactic and Severe Hypersensitivity Reactions

Anaphylactic shock and anaphylactic reactions have been reported (see **ADVERSE REACTIONS**).

Severe hypersensitivity reactions, including severe skin reactions such as toxic epidermal necrolysis (TEN), drug reaction with eosinophilia and systemic symptoms (DRESS), and Stevens-Johnson syndrome (SJS), some with fatal outcome, have been reported (see **ADVERSE REACTIONS**).

In case of such an anaphylactic or severe hypersensitivity reaction, discontinue treatment permanently and institute appropriate therapy.

A careful inquiry should be made concerning previous sensitivities to drugs and other allergens.

Nephrotoxicity

Clindamycin is potentially nephrotoxic and cases with acute kidney injury have been reported. Consider monitoring of renal function particularly in patients with pre-existing renal dysfunction or those taking concomitant nephrotoxic drugs. In case of acute kidney injury, discontinue Clindamycin Injection USP in 5% Dextrose when no other etiology is identified.

Usage in Meningitis-Since clindamycin does not diffuse adequately into the cerebrospinal fluid, the drug should not be used in the treatment of meningitis.

PRECAUTIONS

General

Review of experience to date suggests that a subgroup of older patients with associated severe illness may tolerate diarrhea less well. When clindamycin is indicated in these patients, they should be carefully monitored for change in bowel frequency.

Clindamycin Injection USP in 5% Dextrose products should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly colitis.

Clindamycin Injection USP in 5% Dextrose should be prescribed with caution in atopic individuals.

Certain infections may require incision and drainage or other indicated surgical procedures in addition to antibiotic therapy.

The use of Clindamycin Injection USP in 5% Dextrose may result in overgrowth of nonsusceptible organisms-particularly yeasts. Should superinfections occur, appropriate measures should be taken as indicated by the clinical situation.

Clindamycin Injection USP in 5% Dextrose should not be injected intravenously undiluted as a bolus, but should be infused over at least 10-60 minutes as directed in the **DOSAGE AND ADMINISTRATION** section.

Clindamycin dosage modification is not necessary in patients with renal disease. In

patients with moderate to severe liver disease, prolongation of clindamycin half-life has been found. However, it was postulated from studies that when given every eight hours, accumulation should rarely occur. Therefore, dosage modification in patients with liver disease may not be necessary. However, periodic liver enzyme determinations should be made when treating patients with severe liver disease.

Prescribing Clindamycin Injection USP in 5% Dextrose in the absence of a proven or strongly suspected bacterial infection or a prophylactic indication is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

Information for Patients

Patients should be counseled that antibacterial drugs including Clindamycin Injection USP in 5% Dextrose should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When Clindamycin Injection USP in 5% Dextrose 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 Clindamycin Injection USP in 5% Dextrose 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.

Laboratory Tests

During prolonged therapy periodic liver and kidney function tests and blood counts should be performed.

Drug Interactions

Clindamycin has been shown to have neuromuscular blocking properties that may enhance the action of other neuromuscular blocking agents. Therefore, it should be used with caution in patients receiving such agents.

Clindamycin is metabolized predominantly by CYP3A4, and to a lesser extent by CYP3A5, to the major metabolite clindamycin sulfoxide and minor metabolite N-desmethylclindamycin. Therefore, inhibitors of CYP3A4 and CYP3A5 may increase plasma concentrations of clindamycin and inducers of these isoenzymes may reduce plasma concentrations of clindamycin. In the presence of strong CYP3A4 inhibitors, monitor for adverse reactions. In the presence of strong CYP3A4 inducers such as rifampin, monitor for loss of effectiveness.

In vitro studies indicate that clindamycin does not inhibit CYP1A2, CYP2C9, CYP2C19, CYP2E1 or CYP2D6 and only moderately inhibits CYP3A4.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Long term studies in animals have not been performed with clindamycin to evaluate

carcinogenic potential. Genotoxicity tests performed included a rat micronucleus test and an Ames Salmonella reversion test. Both tests were negative.

Fertility studies in rats treated orally with up to 300 mg/kg/day (approximately 1.1 times the highest recommended adult human dose based on mg/m²) revealed no effects on fertility or mating ability.

Pregnancy: Teratogenic effects

In clinical trials with pregnant women, the systemic administration of clindamycin during the second and third trimesters, has not been associated with an increased frequency of congenital abnormalities.

Clindamycin should be used during the first trimester of pregnancy only if clearly needed. There are no adequate and well-controlled studies in pregnant women during the first trimester of pregnancy. Because animal reproduction studies are not always predictive of the human response, this drug should be used during pregnancy only if clearly needed.

Reproduction studies performed in rats and mice using oral doses of clindamycin up to 600 mg/kg/day (2.1 and 1.1 times the highest recommended adult human dose based on mg/m², respectively) or subcutaneous doses of clindamycin up to 250 mg/kg/day (0.9 and 0.5 times the highest recommended adult human dose based on mg/m², respectively) revealed no evidence of teratogenicity.

Nursing Mothers

Limited published data based on breast milk sampling reports that clindamycin appears in human breast milk in the range of less than 0.5 to 3.8 mcg/mL at dosages of 150 mg orally to 600 mg intravenously. Clindamycin has the potential to cause adverse effects on the breast-fed infant's gastrointestinal flora. If oral or intravenous clindamycin is required by a nursing mother, it is not a reason to discontinue breastfeeding, but an alternate drug may be preferred. Monitor the breast-fed infant for possible adverse effects on the gastrointestinal flora, such as diarrhea, candidiasis (thrush, diaper rash) or rarely, blood in the stool indicating possible antibiotic-associated colitis.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for clindamycin and any potential adverse effects on the breast-fed child from clindamycin or from the underlying maternal condition.

Pediatric Use

When Clindamycin Injection USP in 5% Dextrose is administered to the pediatric population (birth to 16 years) appropriate monitoring of organ system functions is desirable (see **CLINICAL PHARMACOLOGY** and **DOSAGE AND ADMINISTRATION**).

Usage in Newborns and Infants

The potential for the toxic effect in the pediatric population from chemicals that may leach from the single dose premixed IV preparation in plastic has not been evaluated. See **WARNINGS**.

Geriatric Use

Clinical studies of clindamycin did not include sufficient numbers of patients age 65 and over to determine whether they respond differently from younger patients. However, other reported clinical experience indicates that antibiotic-associated colitis and diarrhea (due to *Clostridioides difficile*) seen in association with most antibiotics occur more frequently in the elderly (>60 years) and may be more severe. These patients should be carefully monitored for the development of diarrhea.

Pharmacokinetic studies with clindamycin have shown no clinically important differences between young and elderly subjects with normal hepatic function and normal (age-adjusted) renal function after oral or intravenous administration.

ADVERSE REACTIONS

The following reactions have been reported with the use of clindamycin.

Infections and Infestations: *Clostridioides difficile* colitis

Gastrointestinal: Antibiotic-associated colitis (see **WARNINGS**), pseudomembranous colitis, abdominal pain, nausea, and vomiting. The onset of pseudomembranous colitis symptoms may occur during or after antibacterial treatment (see **WARNINGS**). An unpleasant or metallic taste has been reported after intravenous administration of the higher doses of clindamycin phosphate.

Hypersensitivity Reactions: Maculopapular rash and urticaria have been observed during drug therapy. Generalized mild to moderate morbilliform-like skin rashes are the most frequently reported of all adverse reactions.

Severe skin reactions such as Toxic Epidermal Necrolysis, some with fatal outcome, have been reported (see **WARNINGS**). Cases of Acute Generalized Exanthematous Pustulosis (AGEP), erythema multiforme, some resembling Stevens-Johnson syndrome, have been associated with clindamycin. Anaphylactic shock, anaphylactic reaction and hypersensitivity have also been reported (see **WARNINGS**).

Skin and Mucous Membranes: Pruritus, vaginitis, angioedema and rare instances of exfoliative dermatitis have been reported (see **Hypersensitivity Reactions**).

Liver: Jaundice and abnormalities in liver function tests have been observed during clindamycin therapy.

Renal: Acute kidney injury (see **WARNINGS**).

Hematopoietic: Transient neutropenia (leukopenia) and eosinophilia have been reported. Reports of agranulocytosis and thrombocytopenia have been made. No direct etiologic relationship to concurrent clindamycin therapy could be made in any of the foregoing.

Immune System: Drug reaction with eosinophilia and systemic symptoms (DRESS) cases have been reported.

Local Reactions: Thrombophlebitis has been reported after intravenous infusion. Reactions can be minimized by avoiding prolonged use of indwelling intravenous catheters.

Musculoskeletal: Polyarthritides cases have been reported.

Cardiovascular: Cardiopulmonary arrest and hypotension have been reported

following too rapid intravenous administration (see **DOSAGE AND ADMINISTRATION**).

OVERDOSAGE

Significant mortality was observed in mice at an intravenous dose of 855 mg/kg and in rats at an oral or subcutaneous dose of approximately 2618 mg/kg. In the mice, convulsions and depression were observed.

Hemodialysis and peritoneal dialysis are not effective in removing clindamycin from the serum.

DOSAGE AND ADMINISTRATION

If diarrhea occurs during therapy, this antibiotic should be discontinued (see **WARNING** box).

Adults: Parenteral (IV Administration): Serious infections due to aerobic gram-positive cocci and the more susceptible anaerobes (NOT generally including *Bacteroides fragilis*, *Peptococcus* species and *Clostridium* species other than *Clostridium perfringens*):

600-1200 mg/day in 2, 3 or 4 equal doses.

More severe infections, particularly those due to proven or suspected *Bacteroides fragilis*, *Peptococcus* species, or *Clostridium* species other than *Clostridium perfringens*:

1200-2700 mg/day in 2, 3 or 4 equal doses.

For more serious infections, these doses may have to be increased. In life-threatening situations due to either aerobes or anaerobes these doses may be increased. Doses of as much as 4800 mg daily have been given intravenously to adults. See **Dilution for IV use and IV Infusion Rates** section below.

Alternatively, drug may be administered in the form of a single rapid infusion of the first dose followed by continuous IV infusion as follows:

Table 2: Serum Clindamycin Levels Maintained, Rapid Infusion Rate and Maintenance Infusion Rate

To maintain serum clindamycin levels	Rapid infusion rate	Maintenance infusion rate
Above 4 mcg/mL	10 mg/min for 30 min	0.75 mg/min
Above 5 mcg/mL	15 mg/min for 30 min	1.00 mg/min
Above 6 mcg/mL	20 mg/min for 30 min	1.25 mg/min

Pediatric patients 1 month of age to 16 years: Parenteral (IV) Administration: 20 to 40 mg/kg/day in 3 or 4 equal doses. The higher doses would be used for more severe infections. Clindamycin should be dosed based on total body weight regardless of obesity. As an alternative to dosing on a body weight basis, pediatric patients may be dosed on the basis of square meters body surface: 350 mg/m²/day for serious infections and 450 mg/m²/day for more severe infections.

Parenteral therapy may be changed to oral clindamycin palmitate hydrochloride powder for oral solution or clindamycin hydrochloride capsules when the condition warrants and

at the discretion of the physician.

In cases of β -hemolytic streptococcal infections, treatment should be continued for at least 10 days.

Pediatric Patients less than 1 month: The recommended dosage is 15 to 20 mg/kg/day in 3 to 4 equal doses. See Table 3 regarding the dosing regimen for pediatric patients with post-menstrual age (PMA) less than or equal to 32 weeks, or greater than 32 weeks to less than or equal to 40 weeks.

Table 3: Dosing Regimens for Pediatric Patients with PMA less than or equal to 32 weeks, or greater than 32 weeks to less than or equal to 40 weeks

PMA (weeks)	Dose (mg/kg)	Dosing Interval (hours)
Less than or equal to 32	5	8
Greater than or equal to 32 to less than or equal to 40	7	8

PMA: Post-Menstrual Age

Dilution for IV use and IV Infusion Rates

The concentration of clindamycin in diluent for infusion should not exceed 18 mg per mL. Infusion rates should not exceed 30 mg per minute. The usual infusion dilutions and rates are as follows:

Dose	Diluent	Time
300 mg	50 mL	10 min
600 mg	50 mL	20 min
900 mg	50-100 mL	30 min
1200 mg	100 mL	40 min

Administration of more than 1200 mg in a single 1-hour infusion is not recommended.

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

DIRECTIONS FOR USE

Clindamycin Injection USP in 5% Dextrose in GALAXY Plastic Container

Premixed Clindamycin Injection USP in 5% Dextrose is for intravenous administration using sterile equipment. Check for minute leaks prior to use by squeezing bag firmly. If leaks are found, discard solution as sterility may be impaired. Do not add supplementary medication. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit. Do not use unless solution is clear and seal is intact.

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 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

Each 50 mL of Clindamycin Injection USP in 5% Dextrose contains Clindamycin phosphate, USP equivalent to 300 mg, 600 mg, or 900 mg clindamycin; 2.5 g dextrose hydrous, USP; 2 mg edetate disodium dihydrate, USP; and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid. The single dose GALAXY containers are available as follows:

Code	Product Description	Container NDC Number	Carton NDC Number
2G3452 Supplied as 24 bags per case	300 mg per 50 mL	NDC 0338-3410-50	NDC 0338-3410-24
2G3453 Supplied as 24 bags per case	600 mg per 50 mL	NDC 0338-3612-50	NDC 0338-3612-24
2G3454 Supplied as 24 bags per case	900 mg per 50 mL	NDC 0338-3814-50	NDC 0338-3814-24

Exposure of pharmaceutical products to heat should be minimized. It is recommended that GALAXY plastic containers be stored at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

REFERENCES

1. Smith RB, Phillips JP: Evaluation of CLEOCIN HCl and CLEOCIN Phosphate in an Aged Population. Upjohn TR 8147-82-9122-021, December 1982.

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Baxter Healthcare Corporation

Deerfield, IL 60015 USA

Made in USA.

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Rev. October 2022

PACKAGE/LABEL PRINCIPAL DISPLAY PANEL

NDC 0338-3410-50

**Clindamycin Injection USP
in 5% Dextrose**

300 mg per 50 mL (6 mg / mL)

GALAXY

Code 2G3452

50 mL Single Dose Container

Sterile Nonpyrogenic

Discard unused portion

For Intravenous Use.

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 300 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

Rx only

Store at 20°C to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

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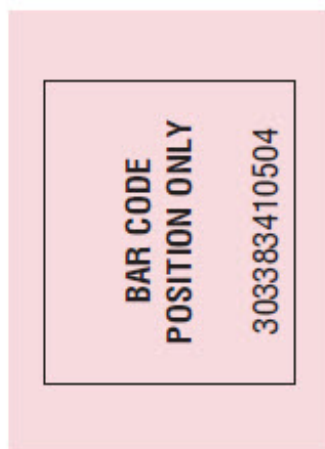
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07-34-00-0749



Container Label

NDC 0338-3410-50

Clindamycin Injection USP

In 5% Dextrose

300 mg per 50 mL (6 mg / mL)

GALAXY

Code 2G3452

50 mL Single Dose Container
Discard unused portion
For Intravenous Use.

Sterile Nonpyrogenic

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 300 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

Rx only

Store at 20°C to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

PL 2501 Plastic

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GALAXY Container

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Made in USA

07-04-00-0261

Clindamycin Injection USP in 5% Dextrose

300 mg per 50 mL (6 mg / mL)

Contains 12 - 50 mL Single Dose Containers

Store at 20° to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

GALAXY Container

PL 2501 Plastic

Baxter

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Made in USA

07-04-00-0261

Clindamycin Injection USP in 5% Dextrose

300 mg per 50 mL (6 mg / mL)

Contains 12 - 50 mL Single Dose Containers

Store at 20° to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

Rx only

NDC 0338-3410-24
Code 2G3452

For Intravenous Use.

Sterile Nonpyrogenic

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 300 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

*FOR BAR CODE POSITION ONLY

(01) 20303383410249

Rx only

NDC 0338-3410-24
Code 2G3452

For Intravenous Use.

Sterile Nonpyrogenic

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 300 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

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(01) 20303383410249

Carton Label

GALAXY Container
PL 2501 Plastic

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Made in USA

07-04-00-0261

Clindamycin Injection USP in 5% Dextrose

300 mg per 50 mL (6 mg / mL)

Contains 12 - 50 mL Single Dose Containers

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

Avoid temperatures above 30°C.

Rx only

NDC 0338-3410-24
Code 2G3452

*FOR BAR CODE POSITION ONLY

(01) 20303383410249

For Intravenous Use.

Not for rapid injection or Intravenous push.

Sterile Nonpyrogenic

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 300 mg clindamycin, 2.5 g dextrose

hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been

adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

NDC 0338-3612-50

**Clindamycin Injection USP
in 5% Dextrose**

600 mg per 50 mL (12 mg / mL)

GALAXY

Code 2G3453

50 mL Single Dose Container

Sterile Nonpyrogenic

Discard unused portion

For Intravenous Use.

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 600 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

Rx only

Store at 20°C to 25°C (68° to 77°F)[see USP Controlled Room Temperature].
Avoid temperatures above 30°C.

Baxter

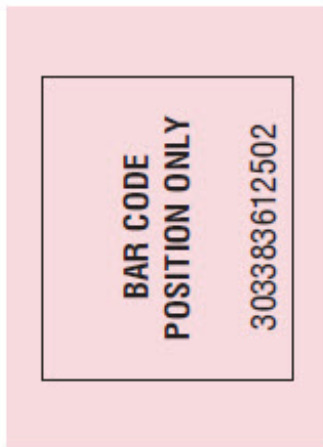
PL 2501 Plastic

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07-34-00-0750



Container Label

**NDC 0338-3612-50
Clindamycin Injection USP
In 5% Dextrose
600 mg per 50 mL
(12 mg / mL)**

GALAXY

Code 2G3453

50 mL Single Dose Container
Discard unused portion
For Intravenous Use.

Not for rapid injection or Intravenous push.

Sterile Nonpyrogenic

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 600 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

Rx only

Store at 20°C to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

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07-34-00-0750

BAR CODE POSITION ONLY

303383612502

GALAXY Container

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07-04-00-0262

Clindamycin Injection USP in 5% Dextrose

600 mg per 50 mL (12 mg / mL)

Contains 12 - 50 mL Single Dose Containers

Store at 20° to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

GALAXY Container

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07-04-00-0262

Clindamycin Injection USP in 5% Dextrose

600 mg per 50 mL (12 mg / mL)

Contains 12 - 50 mL Single Dose Containers

Store at 20° to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

Rx only

NDC 0338-3612-24
Code 2G3453

For Intravenous Use.

Sterile Nonpyrogenic

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 600 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

*FOR BAR CODE POSITION ONLY

(01) 20303383612247

Rx only

NDC 0338-3612-24
Code 2G3453

For Intravenous Use.

Sterile Nonpyrogenic

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 600 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

*FOR BAR CODE POSITION ONLY

(01) 20303383612247

Carton Label

GALAXY Container
PL 2501 Plastic

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07-04-000262

Clindamycin Injection USP in 5% Dextrose

600 mg per 50 mL (12 mg / mL)

Contains 12 - 50 mL Single Dose Containers

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

Avoid temperatures above 30°C.

Rx only

NDC 0338-3612-24

Code 2G3453

*FOR BAR CODE POSITION ONLY

(01) 20303383612247

For Intravenous Use.

Not for rapid injection or Intravenous push.

Sterile Nonpyrogenic

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 600 mg clindamycin, 2.5 g dextrose

hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been

adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

NDC 0338-3814-50

**Clindamycin Injection USP
in 5% Dextrose**

900 mg per 50 mL (18 mg / mL)

GALAXY

Code 2G3454

50 mL Single Dose Container

Sterile Nonpyrogenic

Discard unused portion

For Intravenous Use.

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 900 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

Rx only

Store at 20°C to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

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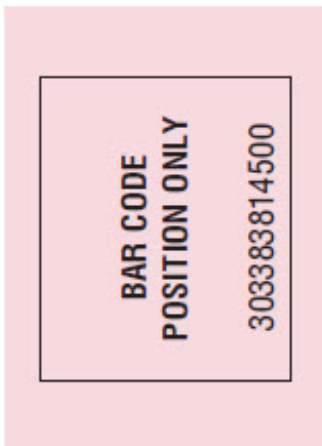
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07-34-00-0752



Container Label

NDC 0338-3814-50

Clindamycin Injection USP

In 5% Dextrose

900 mg per 50 mL (18 mg / mL)

GALAXY

Code 2G3454

50 mL Single Dose Container
Discard unused portion
For Intravenous Use.

Sterile Nonpyrogenic

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 900 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

Rx only

Store at 20°C to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

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07-34-00-0752

BAR CODE POSITION ONLY

303383814500

GALAXY Container

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Made in USA

07-04-00-0263

Clindamycin Injection USP in 5% Dextrose

900 mg per 50 mL (18 mg / mL)

Contains 12 - 50 mL Single Dose Containers

Store at 20° to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

GALAXY Container

PL 2501 Plastic

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Made in USA

07-04-00-0263

Clindamycin Injection USP in 5% Dextrose

900 mg per 50 mL (18 mg / mL)

Contains 12 - 50 mL Single Dose Containers

Store at 20° to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

Rx only

NDC 0338-3814-24
Code 2G3454

For Intravenous Use.

Sterile Nonpyrogenic

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 900 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

*FOR BAR CODE POSITION ONLY

(01) 20303383814245

Rx only

NDC 0338-3814-24
Code 2G3454

For Intravenous Use.

Sterile Nonpyrogenic

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 900 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

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

*FOR BAR CODE POSITION ONLY

(01) 20303383814245

Carton Label

GALAXY Container
PL 2501 Plastic

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Made in USA

07-04-00-0263

Clindamycin Injection USP in 5% Dextrose

900 mg per 50 mL (18 mg / mL)

Contains 12 - 50 mL Single Dose Containers

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

Avoid temperatures above 30°C.

Rx only

NDC 0338-3814-24

Code 2G3454

***FOR BAR CODE POSITION ONLY**

(01) 20303383814245

For Intravenous Use.

Not for rapid injection or Intravenous push.

Sterile Nonpyrogenic

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 900 mg clindamycin, 2.5 g dextrose

hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been

adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

Cautions: Do not add supplementary medication. Must not be used in series

connections. Check for minute leaks and solution clarity.

CLINDAMYCIN PHOSPHATE

clindamycin phosphate injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0338-3410
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
CLINDAMYCIN PHOSPHATE (UNII: EH6D7113I8) (CLINDAMYCIN - UNII:3U02EL437C)	CLINDAMYCIN PHOSPHATE	300 mg in 50 mL

Inactive Ingredients

Ingredient Name	Strength
EDETATE DISODIUM (UNII: 7FLD91C86K)	2 mg in 50 mL
DEXTROSE MONOHYDRATE (UNII: LX22YL083G)	2.50 g in 50 mL
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	
WATER (UNII: 059QF0KO0R)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0338-3410-24	24 in 1 CARTON	06/28/2017	
1	NDC:0338-3410-50	50 mL in 1 BAG; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA208084	06/28/2017	

CLINDAMYCIN PHOSPHATE

clindamycin phosphate injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0338-3612
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
CLINDAMYCIN PHOSPHATE (UNII: EH6D7113I8) (CLINDAMYCIN - UNII:3U02EL437C)	CLINDAMYCIN PHOSPHATE	600 mg in 50 mL

Inactive Ingredients

Ingredient Name	Strength
EDETATE DISODIUM (UNII: 7FLD91C86K)	2 mg in 50 mL
DEXTROSE MONOHYDRATE (UNII: LX22YL083G)	2.50 g in 50 mL
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	
WATER (UNII: 059QF0KO0R)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0338-3612-24	24 in 1 CARTON	06/28/2017	
1	NDC:0338-3612-50	50 mL in 1 BAG; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA208084	06/28/2017	

CLINDAMYCIN PHOSPHATE

clindamycin phosphate injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0338-3814
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
CLINDAMYCIN PHOSPHATE (UNII: EH6D7113I8) (CLINDAMYCIN - UNII:3U02EL437C)	CLINDAMYCIN PHOSPHATE	900 mg in 50 mL

Inactive Ingredients

Ingredient Name	Strength
-----------------	----------

EDETATE DISODIUM (UNII: 7FLD91C86K)	2 mg in 50 mL
DEXTROSE MONOHYDRATE (UNII: LX22YL083G)	2.5 g in 50 mL
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	
WATER (UNII: 059QF0KO0R)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0338-3814-24	24 in 1 CARTON	06/28/2017	
1	NDC:0338-3814-50	50 mL in 1 BAG; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA208084	06/28/2017	

Labeler - Baxter Healthcare Corporation (005083209)

Establishment

Name	Address	ID/FEI	Business Operations
Baxter Healthcare Corporation		194684502	ANALYSIS(0338-3410, 0338-3612, 0338-3814) , LABEL(0338-3814, 0338-3612, 0338-3814) , MANUFACTURE(0338-3410, 0338-3612, 0338-3814) , PACK(0338-3410, 0338-3612, 0338-3814) , STERILIZE(0338-3410, 0338-3612, 0338-3814)

Revised: 10/2022

Baxter Healthcare Corporation