

ERYTHROMYCIN LACTOBIONATE- erythromycin lactobionate injection, powder, lyophilized, for solution
Nexus Pharmaceuticals LLC

FOR INTRAVENOUS USE ONLY
Single-dose Vials

Erythromycin Lactobionate for Injection, USP
For Intravenous Use Only Vials

Rx only

NEXUS
PHARMACEUTICALS

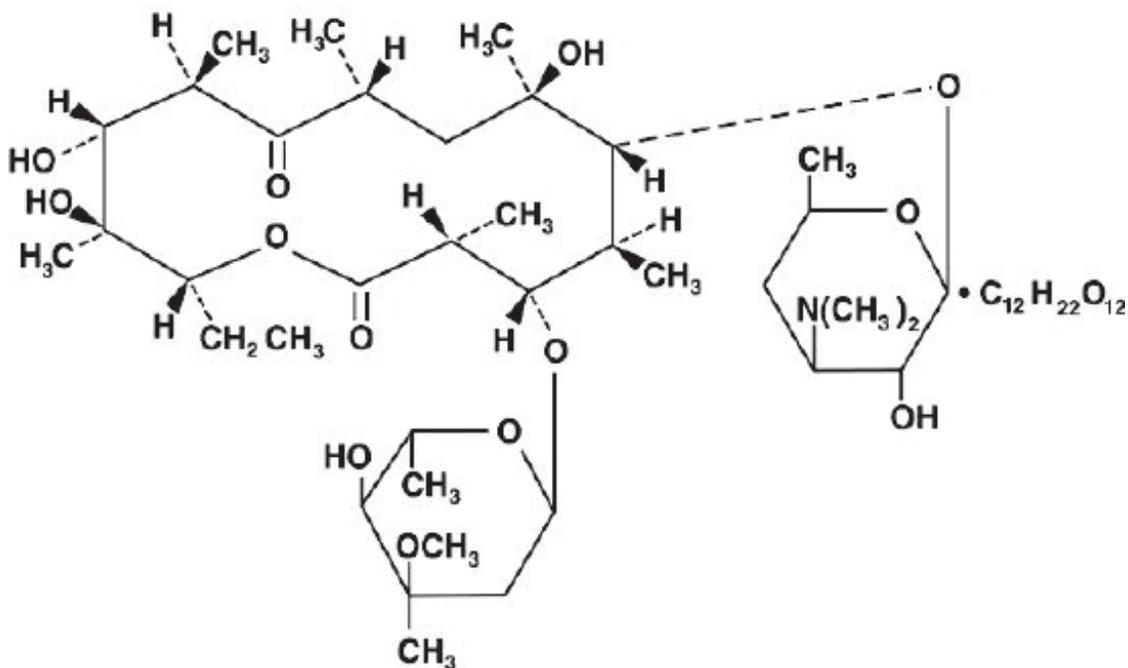
To reduce the development of drug-resistant bacteria and maintain the effectiveness of erythromycin and other antibacterial drugs, erythromycin should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria.

DESCRIPTION

Erythromycin is produced by a strain of *Streptomyces erythraeus* and belongs to the macrolide group of antibiotics. It is basic and readily forms salts with acids.

Erythromycin lactobionate for injection, USP is a soluble salt of erythromycin suitable for intravenous administration. The lactobionic acid content is 244 mg per vial. Lactobionic acid and/or erythromycin are used to adjust the pH during the manufacture of the product. When reconstituted as directed, each mL contains 50 mg of erythromycin activity. The pH of the reconstituted solution is 6.5 -7.5.

Erythromycin lactobionate is chemically known as erythromycin mono (4-O-β-D-galactopyranosyl-D-gluconate) (salt). The structural formula is:



CLINICAL PHARMACOLOGY

Erythromycin diffuses readily into most body fluids. In the absence of meningeal inflammation, low concentrations are normally achieved in the spinal fluid but the passage of the drug across the blood-brain barrier increases in meningitis. Erythromycin crosses the placental barrier and is excreted in breast milk. Erythromycin is not removed by peritoneal dialysis or hemodialysis.

In the presence of normal hepatic function, erythromycin is concentrated in the liver and is excreted in the bile; the effect of hepatic dysfunction on biliary excretion of erythromycin is not known. From 12 to 15 percent of intravenously administered erythromycin is excreted in active form in the urine.

Intravenous infusion of 500 mg of erythromycin lactobionate at a constant rate over 1 hour in fasting adults produced a mean serum erythromycin level of approximately 7 mcg/mL at 20 minutes, 10 mcg/mL at 1 hour, 2.6 mcg/mL at 2.5 hours, and 1 mcg/mL at 6 hours.

Microbiology

Mechanism of Action

Erythromycin acts by inhibition of protein synthesis by binding 50 S ribosomal subunits of susceptible organisms. It does not affect nucleic acid synthesis.

Resistance

Resistance to erythromycin in *S. aureus* may emerge during therapy. Many isolates of *Haemophilus influenzae* are resistant to erythromycin but are susceptible to erythromycin and sulfonamides when used concomitantly.

Interactions With Other Antimicrobials

Antagonism has been demonstrated *in vitro* between erythromycin and clindamycin, lincomycin and chloramphenicol.

Antimicrobial Activity

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

Aerobic bacteria

Gram-positive bacteria

Corynebacterium diphtheriae

Corynebacterium minutissimum

Staphylococcus aureus

Streptococcus pneumoniae

Streptococcus pyogenes

Gram-negative bacteria

Legionella pneumophila

Neisseria gonorrhoeae

Other Microorganisms

Mycoplasma pneumoniae

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 erythromycin against isolates of similar genus or organism group. However, the efficacy of erythromycin in treating clinical infections caused by these bacteria has not been established in adequate and well-controlled clinical trials.

Gram-negative bacteria

Moraxella catarrhalis

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

Erythromycin lactobionate for injection, USP is indicated in the treatment of infections caused by susceptible strains of the designated organisms in the diseases listed below when oral administration is not possible or when the severity of the infection requires immediate high serum levels of erythromycin. Intravenous therapy should be replaced by oral administration at the appropriate time.

Upper respiratory tract infections of mild to moderate degree caused by *Streptococcus pyogenes* (Group A beta-hemolytic streptococci); *Streptococcus pneumoniae* (*Diplococcus pneumoniae*); *Haemophilus influenzae* (when used concomitantly with adequate doses of sulfonamides, since many strains of *H. influenzae* are not susceptible to the erythromycin concentrations ordinarily achieved). (See appropriate sulfonamide labeling for prescribing information).

Lower respiratory tract infections of mild to moderate severity caused by *Streptococcus pyogenes* (Group A beta-hemolytic streptococci); *Streptococcus pneumoniae* (*Diplococcus pneumoniae*).

Respiratory tract infections due to *Mycoplasma pneumoniae*.

Skin and skin structure infections of mild to moderate severity caused by *Streptococcus pyogenes* and *Staphylococcus aureus* (resistant staphylococci may emerge during treatment).

Diphtheria: As an adjunct to antitoxin infections due to *Corynebacterium diphtheriae* to prevent establishment of carriers and to eradicate the organism in carriers.

Erythrasma: In the treatment of infections due to *Corynebacterium minutissimum*.

Acute pelvic inflammatory disease caused by *Neisseria gonorrhoeae*: Erythromycin lactobionate for injection, USP, followed by erythromycin stearate or erythromycin base orally, as an alternative drug in treatment of acute pelvic inflammatory disease caused by *N. gonorrhoeae* in female patients with a history of sensitivity to penicillin.

Before treatment of gonorrhea, patients who are suspected of also having syphilis should have a microscopic examination for *T. pallidum* (by immunofluorescence or darkfield) before receiving erythromycin and monthly serologic tests for a minimum of 4 months thereafter.

Legionnaires' Disease caused by *Legionella pneumophila*. Although no controlled clinical efficacy studies have been conducted, *in vitro* and limited preliminary clinical data suggest that erythromycin may be effective in treating Legionnaires' Disease.

Prevention of Initial Attacks of Rheumatic Fever

Penicillin is considered by the American Heart Association to be the drug of choice in the prevention of initial attacks of rheumatic fever (treatment of Group A beta-hemolytic streptococcal infections of the upper respiratory tract e.g., tonsillitis, or pharyngitis).

¹Erythromycin is indicated for the treatment of penicillin-allergic patients. The therapeutic dose should be administered for ten days.

Prevention of Recurrent Attacks of Rheumatic Fever

Penicillin or sulfonamides are considered by the American Heart Association to be the drugs of choice in the prevention of recurrent attacks of rheumatic fever. In patients who are allergic to penicillin and sulfonamides, oral erythromycin is recommended by the American Heart Association in the long-term prophylaxis of streptococcal pharyngitis (for the prevention of recurrent attacks of rheumatic fever). ¹

Prevention of Bacterial Endocarditis

Although no controlled clinical efficacy trials have been conducted, oral erythromycin has been recommended by the American Heart Association for prevention of bacterial endocarditis in penicillin-allergic patients with prosthetic cardiac valves, most congenital cardiac malformations, surgically constructed systemic pulmonary shunts, rheumatic or other acquired valvular dysfunction, idiopathic hypertrophic subaortic stenosis (IHSS), previous history of bacterial endocarditis and mitral valve prolapse with insufficiency when they undergo dental procedures and surgical procedures of the upper respiratory tract. ²

To reduce the development of drug-resistant bacteria and maintain the effectiveness of erythromycin and other antibacterial drugs, erythromycin 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

Erythromycin is contraindicated in patients with known hypersensitivity to this antibiotic.

Erythromycin is contraindicated in patients taking terfenadine or astemizole, cisapride, pimozide, ergotamine, or dihydroergotamine (See **WARNINGS and PRECAUTIONS - Drug Interactions**).

Do not use erythromycin concomitantly with 3-hydroxy-3-methylglutaryl-coenzyme A (HMG CoA) reductase inhibitors (statins) that are extensively metabolized by cytochrome P450 isoform 3A4 (lovastatin or simvastatin), due to the increased risk of myopathy, including rhabdomyolysis (See **WARNINGS and PRECAUTIONS - Drug Interactions**).

WARNINGS

Hepatotoxicity

There have been reports of hepatic dysfunction, with or without jaundice occurring in patients receiving oral erythromycin products. Since erythromycin is principally excreted by the liver, monitor for liver toxicity when erythromycin is administered to patients with impaired hepatic function (See **CLINICAL PHARMACOLOGY**).

***Clostridium difficile*-Associated Diarrhea**

Clostridium difficile-associated diarrhea (CDAD) has been reported with the use of nearly all antibacterial agents, including erythromycin, 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 2 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.

QT Prolongation

Life-threatening episodes of ventricular tachycardia associated with prolonged QT intervals (torsades de pointes) have been reported in some patients after intravenous administration of erythromycin lactobionate.

Susceptibility to the development of torsades de pointes arrhythmias, a rare but serious cardiac condition, is related to electrolyte imbalance, hepatic dysfunction, myocardial ischemia, left ventricular dysfunction, idiopathic Q-T prolongation, and concurrent antiarrhythmic therapy.³ Elderly patients exhibit a greater frequency of decreased hepatic function, cardiac function, and of concomitant disease and other drug therapy, and therefore should be monitored carefully during erythromycin therapy.

Infantile Hypertrophic Pyloric Stenosis (IHPS)

There have been reports of IHPS occurring in infants following erythromycin therapy. Since erythromycin may be used in the treatment of conditions in infants which are associated with significant mortality or morbidity (such as pertussis or chlamydia), the benefit of erythromycin therapy needs to be weighed against the potential risk of developing IHPS. Parents or caregivers of infants receiving erythromycin should be informed to contact their physician if vomiting or irritability with feeding occurs.

Drug Interactions

Serious adverse reactions have been reported in patients taking erythromycin concomitantly with CYP3A4 substrates. These include colchicine toxicity with colchicine; rhabdomyolysis with simvastatin, lovastatin, and atorvastatin; and hypotension with calcium channel blockers metabolized by CYP3A4 (e.g. verapamil, amlodipine, diltiazem, vasospasm and ischemia with ergotamine/dihydroergotamine) (See **PRECAUTIONS - Drug Interactions**).

PRECAUTIONS

Exacerbation of Myasthenia gravis

There have been reports that erythromycin may aggravate the weakness of patients with myasthenia gravis.

Development of Drug-Resistant Bacteria

Prolonged or repeated use of erythromycin may result in an overgrowth of nonsusceptible bacteria or fungi. If superinfection occurs, erythromycin should be discontinued and appropriate therapy instituted.

When indicated, incision and drainage or other surgical procedures should be performed in conjunction with antibiotic therapy.

Prescribing erythromycin 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

Erythromycin interferes with the fluorometric determination of urinary catecholamines.

Drug Interactions

Erythromycin administration in patients receiving 3-hydroxy-3-methylglutarylcoenzyme A (HMG CoA) reductase inhibitors (statins) that are extensively metabolized by cytochrome P450 isoform 3A4 (e.g., lovastatin or simvastatin) has been reported to cause increased risk of myopathy, including rhabdomyolysis. Do not administer erythromycin with lovastatin or simvastatin (See **CONTRAINDICATIONS**).

Erythromycin use in patients who are receiving high doses of theophylline may be associated with an increase of serum theophylline levels and potential theophylline toxicity. In case of theophylline toxicity and/or elevated serum theophylline levels, the dose of theophylline should be reduced while the patient is receiving concomitant erythromycin therapy.

There have been published reports suggesting that when oral erythromycin is given concurrently with theophylline there is a significant decrease in erythromycin serum concentrations. This decrease could result in subtherapeutic concentrations of erythromycin.

Erythromycin administration in patients receiving carbamazepine has been reported to cause increased serum levels of carbamazepine with subsequent development of signs of carbamazepine toxicity.

Concomitant administration of erythromycin and digoxin has been reported to result in elevated serum digoxin levels.

There have been reports of increased anticoagulant effects, which may be more pronounced in elderly when erythromycin and oral anticoagulants (e.g., warfarin) are used concomitantly.

Colchicine is a substrate for both CYP3A4 and the efflux transporter P-glycoprotein (P-gp). Erythromycin is considered a moderate inhibitor of CYP3A4. A significant increase in colchicine plasma concentration is anticipated when co-administered with moderate CYP3A4 inhibitors such as erythromycin. If co-administration of colchicine and erythromycin is necessary, the starting dose of colchicine may need to be reduced, and the maximum colchicine dose should be lowered. Patients should be monitored for clinical symptoms of colchicine toxicity (See **WARNINGS**).

Erythromycin has been reported to increase the systemic exposure (AUC) of sildenafil. Reduction of sildenafil dosage should be considered (See sildenafil prescribing information).

Erythromycin has been reported to decrease the clearance of triazolam, midazolam and related benzodiazepines, and thus may increase the pharmacological effect of these benzodiazepines.

Post-marketing reports indicate that co-administration of erythromycin with ergotamine or dihydroergotamine has been associated with acute ergot toxicity characterized by vasospasm and ischemia of the central nervous system, extremities and other tissues (See **CONTRAINDICATIONS**).

Erythromycin has been reported to significantly alter the metabolism of the nonsedating antihistamines, terfenadine and astemizole, when taken concomitantly. Rare cases of serious cardiovascular adverse events, including electrocardiographic QT/QTc interval prolongation, cardiac arrest, torsades de pointes, and other ventricular arrhythmias, have been observed (See **CONTRAINDICATIONS**). In addition, deaths have been reported rarely with concomitant administration of terfenadine and erythromycin.

The use of erythromycin in patients concurrently taking drugs metabolized by the cytochrome P450 system may be associated with elevations in serum levels of these other drugs. There have been reports of interactions of erythromycin with carbamazepine, cyclosporine, hexobarbital, phenytoin, alfentanil, disopyramide, bromocriptine, valproate, terfenadine, and astemizole. Serum concentrations of drugs metabolized by the cytochrome P450 system should be monitored closely in patients concurrently receiving erythromycin.

Hypotension, bradyarrhythmias and lactic acidosis have been observed in patients receiving concurrent verapamil, a calcium-channel blocker.

Cimetidine may inhibit the metabolism of erythromycin, which may lead to an increased plasma concentration.

Erythromycin has been reported to decrease the clearance of racemic zopiclone and, thus, may also decrease the clearance of eszopiclone, the S-enantiomer of racemic zopiclone. Accordingly, erythromycin may increase the pharmacodynamic effects of eszopiclone. Dose reduction of eszopiclone may be necessary (See eszopiclone prescribing information).

Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term animal data with erythromycin lactobionate for use in determination of possible carcinogenic effects are not available. However, long-term oral studies in rats with erythromycin ethylsuccinate and erythromycin base did not provide evidence of tumorigenicity. Mutagenicity studies have not been conducted. There was no apparent effect on male or female fertility in rats fed erythromycin (base) at levels up to 0.25% of diet.

Pregnancy

There was no evidence of teratogenicity or any other adverse effect on reproduction in female rats fed erythromycin base (up to 0.25% of diet) prior to and during mating, during gestation, and through weaning of two successive litters. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed. Erythromycin has been reported to cross the placental barrier in humans, but fetal plasma levels are generally low.

Labor and Delivery

The effect of erythromycin on labor and delivery is unknown.

Nursing Mothers

Erythromycin is excreted in breast milk. Caution should be exercised when erythromycin is administered to a nursing woman.

Pediatric Use

(See **INDICATIONS AND USAGE** and **DOSAGE AND ADMINISTRATION**).

Geriatric Use

Elderly patients, particularly those with reduced renal or hepatic function, may be at increased risk for developing erythromycin-induced hearing loss, when erythromycin doses of 4 grams/day or higher are given (See **ADVERSE REACTIONS** and **DOSAGE AND ADMINISTRATION**).

Elderly patients may be more susceptible to the development of torsades de pointes arrhythmias than younger patients (See **ADVERSE REACTIONS**).

Elderly patients may experience increased effects of oral anticoagulant therapy while undergoing treatment with erythromycin (See **PRECAUTIONS - Drug Interactions**).

Erythromycin Lactobionate does not contain sodium.

Information for Patients

Patients should be counseled that antibacterial drugs including erythromycin should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When erythromycin 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 erythromycin 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

Erythromycin has been associated with QT prolongation and ventricular arrhythmias, including ventricular tachycardia and torsades de pointes (See **WARNINGS**).

Side effects following the use of intravenous erythromycin are rare. Occasional venous irritation has been encountered, but if the infusion is given slowly, in dilute solution, preferably by continuous intravenous infusion or intermittent infusion in no less than 20 to 60 minutes, pain and vessel trauma are minimized.

Allergic reactions ranging from urticaria to anaphylaxis have occurred. Skin reactions ranging from mild eruptions to erythema multiforme, Stevens-Johnson syndrome, and toxic epidermal necrolysis have been reported rarely.

There have been isolated reports of reversible hearing loss occurring chiefly in patients with renal insufficiency and in patients receiving high doses of erythromycin.

Elderly patients, particularly those with reduced renal or hepatic function, may also be at increased risk for developing this effect when erythromycin doses of 4 grams/day or higher are given (See **DOSAGE AND ADMINISTRATION**).

To report SUSPECTED ADVERSE REACTIONS, contact safety.nexuspharma@lambda-cro.com or 1-855-642-2594 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OVERDOSAGE

In the case of overdosage, erythromycin infusion should be discontinued and all other appropriate measures should be instituted. Adverse reactions at higher than recommended doses could be similar to those reported with oral formulations of erythromycin, particularly, severe abdominal pain, nausea, vomiting, diarrhea, hepatitis, pancreatitis, and transient hearing loss.

Erythromycin is not removed by peritoneal dialysis or hemodialysis.

DOSAGE AND ADMINISTRATION

For the treatment of severe infections in adults and pediatric patients, the recommended intravenous dose of erythromycin lactobionate is 15 to 20 mg/kg/day. Higher doses, up to 4 g/day, may be given for severe infections.

Administration of doses of ≥ 4 g/day may increase the risk for the development of erythromycin-induced hearing loss in elderly patients, particularly those with reduced renal or hepatic function. Erythromycin Lactobionate for Injection, USP, must be administered by continuous or intermittent intravenous infusion only. Due to the irritative properties of erythromycin, IV push is an unacceptable route of administration.

Continuous infusion of erythromycin lactobionate is preferable due to the slower infusion rate and lower concentration of erythromycin; however, intermittent infusion at six hour intervals is also effective. Intravenous erythromycin should be replaced by oral erythromycin as soon as possible.

For slow continuous infusion: The final diluted solution of erythromycin lactobionate is prepared to give a concentration of 1 g per liter (1 mg/mL).

For intermittent infusion: Administer one-fourth the total daily dose of erythromycin lactobionate by intravenous infusion in 20 to 60 minutes at intervals not greater than every six hours. The final diluted solution of erythromycin lactobionate is prepared to give a concentration of 1 to 5 mg/mL. No less than 100 mL of IV diluent should be used. Infusion should be sufficiently slow to minimize pain along the vein.

For treatment of acute pelvic inflammatory disease caused by *N. Gonorrhoeae*, in female patients hypersensitive to penicillins, administer 500 mg erythromycin lactobionate every six hours for three days, followed by oral administration of 250 mg erythromycin stearate or base every six hours for seven days.

For treatment of Legionnaires' Disease: Although optimal doses have not been established, doses utilized in reported clinical data were 1 to 4 grams daily in divided doses.

Administration of doses of ≥ 4 g/day may increase the risk for the development of erythromycin-induced hearing loss in elderly patients, particularly those with reduced renal or hepatic function.

In the treatment of Group A beta-hemolytic streptococcal infections of the upper respiratory tract (e.g., tonsillitis or pharyngitis), the therapeutic dosage of erythromycin should be administered for ten days. The American Heart Association suggests a dosage of 250 mg of erythromycin orally, twice a day in long-term prophylaxis of streptococcal upper respiratory tract infections for the prevention of recurring attacks of rheumatic fever in patients allergic to penicillin and sulfonamides.¹

In prophylaxis against bacterial endocarditis (See **INDICATIONS AND USAGE**) the oral regimen for penicillin allergic patients is erythromycin 1 gram, 1 hour before the procedure followed by 500 mg six hours later.²**Preparation of Solution:**

Erythromycin lactobionate for Injection, USP is a lyophilized powder, which requires reconstitution and further dilution before administration according to the steps below:

1. Reconstitute Erythromycin lactobionate for Injection, USP by adding 10 mL of Sterile Water for Injection, USP to the 500 mg single-dose vial to give a concentration of 50 mg of erythromycin activity per milliliter (50 mg/mL). Do not use other diluents in this

- step because other diluents may cause precipitation during reconstitution. Do not use diluents containing preservatives or inorganic salts. The reconstituted solution is stable at refrigerator temperature for 2 weeks, or for 24 hours at room temperature.
2. Add the reconstituted solution to one of the following diluents before administration to give a concentration of 1 g of erythromycin activity per liter (1 mg/mL) for continuous infusion or 1 to 5 mg/mL for intermittent infusion:
 - Do not use other diluents in this step 2. Acidic solutions of Erythromycin lactobionate for Injection, USP (solutions with a pH < 5.5) are unstable and lose their potency rapidly.

Do not add any drug or chemical agent to an erythromycin lactobionate for injection solution unless its effect on the chemical and physical stability of the solution has first been determined.

Stability

The final diluted solution of erythromycin lactobionate should be completely administered within 8 hours, since it is not suitable for storage. Discard unused portion.

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

HOW SUPPLIED

Erythromycin lactobionate for injection, USP, is supplied as a sterile, lyophilized powder in packages of five vials, each vial containing the equivalent of 500 mg of erythromycin.

Item	NDC Number
5 Vials per Carton	14789-116-05
Single-dose vial	14789-116-07

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

REFERENCES

1. Committee on Rheumatic Fever and Infective Endocarditis of the Council on Cardiovascular Disease of the Young: Prevention of Rheumatic Fever, *Circulation*70(6):1118A-1122A, December 1984.
2. Committee on Rheumatic Fever and Infective Endocarditis of the Council on Cardiovascular Disease of the Young: Prevention of Bacterial Endocarditis, *Circulation*70(6):1123A-1127A, December 1984.
3. Gilter, B., et al, *Torsades de Pointes Induced by Erythromycin*, *Chest*, Volume 105: 368-72, February 1994.

Manufactured in the USA by:
Nexus Pharmaceuticals, LLC
Lincolnshire, IL 60069

NEXUS
PHARMACEUTICALS

ETMPI01R04

Revised: 3/2024

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Principal Display Panel - 500 mg Carton Label

Rx only

NDC 14789-116-05

Five single-dose Vials

**Erythromycin Lactobionate
for Injection, USP**

Erythromycin Activity

500 mg per Vial

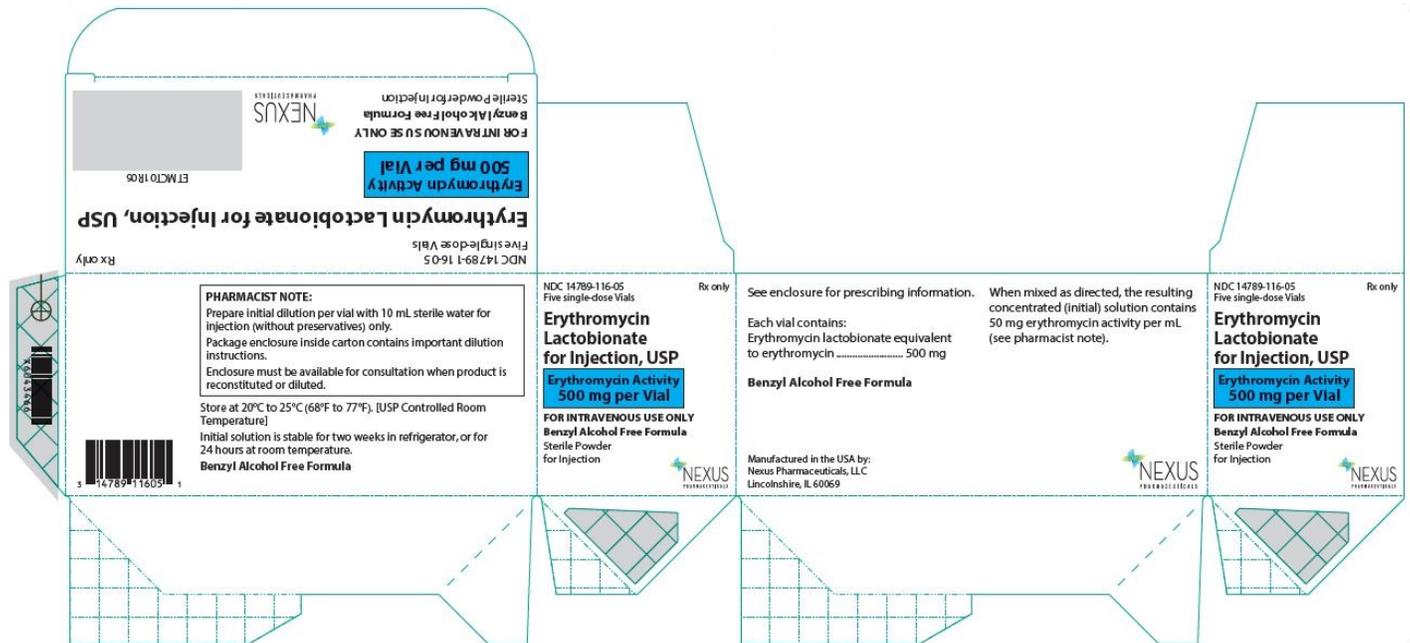
For Intravenous Use Only

Benzyl Alcohol Free Formula

Sterile Powder for Injection

NEXUS

PHARMACEUTICALS



Principal Display Panel - 500 mg Vial Label

Rx only

NDC 14789-116-07

**Erythromycin Lactobionate
for Injection, USP**

Erythromycin Activity

500 mg per Vial

For intravenous use only.

Benzyl Alcohol Free Formula

Sterile Powder for Injection

Single-dose vial

Initial solution is stable for two weeks in refrigerator or for 24 hours at room temperature. Prepare initial dilution with 10 mL sterile water for injection (without preservatives) only. Read enclosure carefully for full dilution directions. When mixed as directed, the resulting concentrated (initial) solution contains 50 mg erythromycin activity per mL. Each vial contains erythromycin lactobionate equivalent to 500 mg of erythromycin. Store at 20°C to 25°C (68°F to 77°F). [USP Controlled Room Temperature]

Manufactured in the USA by:
Nexus Pharmaceuticals, LLC
Lincolnshire, IL 60069



Rx only NDC 14789-116-07

**Erythromycin Lactobionate
for Injection, USP**

**Erythromycin Activity
500 mg per Vial**

**For intravenous use only.
Benzyl Alcohol Free Formula
Sterile Powder For Injection
Single-dose vial**



ERYTHROMYCIN LACTOBIONATE

erythromycin lactobionate injection, powder, lyophilized, for solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:14789-116
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ERYTHROMYCIN LACTOBIONATE (UNII: 33H58I7GLQ) (ERYTHROMYCIN - UNII:63937KV33D)	ERYTHROMYCIN	500 mg in 10 mL

Inactive Ingredients

Ingredient Name	Strength
WATER (UNII: 059QF0KO0R)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:14789-116-05	5 in 1 BOX	08/01/2021	

1	NDC:14789-116-07	10 mL in 1 VIAL, GLASS; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation		Marketing Start Date	Marketing End Date
ANDA	ANDA215290		08/01/2021	

Labeler - Nexus Pharmaceuticals LLC (620714787)

Revised: 10/2024

Nexus Pharmaceuticals LLC