

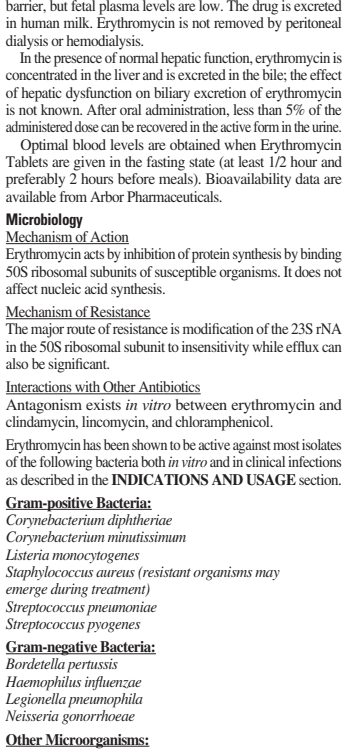
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ERYTHROMYCIN TABLETS, USP Film-coated Tablets

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To reduce the development of drug-resistant bacteria and maintain the effectiveness of Erythromycin Tablets and other antibacterial drugs...



Inactive Ingredients Colloidal silicon dioxide, croscarmellose sodium, crospovidone, DMC Red No. 30 Aluminum Lake, hydroxypropyl cellulose...

Clinical Pharmacology orally administered erythromycin base and its salts are readily absorbed in the micrologically active form. Interindividual variations in the absorption of erythromycin are, however, observed...

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

Mechanism of Resistance The major route of resistance is modification of the 23S rRNA in the 50S ribosomal subunit to insensitivity while ethR can also be significant.

Interactions with Other Antibiotics Antagonism exists in vitro between erythromycin and clindamycin, lincomycin, and chloramphenicol.

Gram-positive Bacteria Corynebacterium diptheriae Listeria monocytogenes Streptococcus aureus (resistant organisms may emerge during treatment) Streptococcus pneumoniae Streptococcus pyogenes

Gram-negative Bacteria Bordetella pertussis Haemophilus influenzae Legionella pneumophila Neisseria gonorrhoeae

Other Microorganisms Chlamydia trachomatis Entamoeba histolytica Mycoplasma pneumoniae Treponema pallidum Ureaplasma urealyticum

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

Gram-positive Bacteria: Viridans group streptococci Gram-negative Bacteria: Moraxella catarrhalis

Susceptibility Test Methods When available the clinical microbiology laboratory should provide the results of in vitro susceptibility test results for antimicrobial drug products used in resident hospitals to the physician as periodic reports that describe the susceptibility profile of nosocomial and community-acquired pathogens.

Dilution Techniques: Quantitative methods are used to determine antimicrobial minimum inhibitory concentrations (MIC's). These MICs provide estimates of the susceptibility of bacteria to antimicrobial compounds.

Diffusion techniques: Quantitative methods that require measurement of zone diameters can also provide reproducible estimates of the susceptibility of bacteria to antimicrobial compounds.

Table 1. In Vitro Susceptibility Test Interpretive Criteria for Erythromycin. Minimum Inhibitory Concentrations (mcg/mL) vs. Disk Diffusion Zones (mm).

Quality Control: Standardized susceptibility test procedures require the use of laboratory controls to monitor and ensure the accuracy and precision of supplies and reagents used in the assay.

INDICATIONS AND USAGE To reduce the development of drug-resistant bacteria and maintain the effectiveness of Erythromycin Tablets, USP should be used only to treat or prevent infections that are proven or strongly suspected to be caused by susceptible bacteria.

Pharyngitis: Erythromycin is indicated for the treatment of the following infections caused by Chlamydia trachomatis: conjunctivitis of the newborn, pneumonia of infancy, and ureteral infections during pregnancy.

Syphilis in Pregnancy: There have been reports suggesting that erythromycin does not reach the fetus in adequate concentration to prevent congenital syphilis.

Diarrhea: Clostridium difficile associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including Erythromycin Tablets, and may range in severity from mild diarrhea to fatal colitis.

Drug Interactions: There have been post-marketing reports of colchicine toxicity with concomitant use of erythromycin and colchicine. This interaction is potentially life-threatening.

Warnings: There have been reports of hepatic dysfunction, including increased liver enzymes, and hepatocellular and/or cholestatic hepatitis, with or without jaundice, occurring in patients receiving oral erythromycin products.

- 1. Clinical and Laboratory Standards Institute (CLSI). Reference Methods for Antimicrobial Susceptibility Testing. Approved Document M7-A9, Clinical and Laboratory Standards Institute, 2012.
- 2. Clinical and Laboratory Standards Institute (CLSI). Performance Standards for Antimicrobial Susceptibility Testing. Approved Document M7-A9, Clinical and Laboratory Standards Institute, 2012.
- 3. Clinical and Laboratory Standards Institute (CLSI). Performance Standards for Antimicrobial Susceptibility Testing. Approved Document M7-A9, Clinical and Laboratory Standards Institute, 2012.

Recommended Storage Store below 86°F (30°C). Recommended Storage 30-day shelf life at room temperature (20°C-25°C).

How Supplied Erythromycin Tablets are supplied as single, uncoated oral tablets in the following strengths and packages.

Contraindications Erythromycin is contraindicated in patients with known hypersensitivity to erythromycin. Erythromycin is contraindicated in patients with known hypersensitivity to macrolide antibiotics.

Warnings: Adverse reactions associated with Erythromycin Tablets, USP include:

Diarrhea: The most frequent side effect of oral erythromycin products are gastrointestinal and are dose-related. They include nausea, vomiting, diarrhea, and abdominal pain. In some patients, the diarrhea is associated with a change in the normal flora of the colon.

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