

## **ERYTHROMYCIN- erythromycin ointment**

### **Direct\_Rx**

#### **ERYTHROMYCIN**

Erythromycin Ophthalmic Ointment belongs to the macrolide group of antibiotics. It is basic and readily forms a salt when combined with an acid. The base, as crystals or powder, is slightly soluble in water, moderately soluble in ether, and readily soluble in alcohol or chloroform. Erythromycin ((3R\*,4S\*,5S\*,6R\*,7R\*,9R\*,11R\*,12R\*,13S\*,14R\*)-4-[(2,6-dideoxy-3-C-methyl-3-O-methyl- $\alpha$ -L-ribo-hexopyranosyl)oxy]-14-ethyl-7,12,13-trihydroxy-3,5,7,9,11,13-hexamethyl-6-[[3,4,6-trideoxy-3-(dimethylamino)- $\beta$ -D-xylo-hexopyranosyl]oxy]oxacyclotetradecane-2,10-dione) is antibiotic produced from a strain of *Streptomyces erythraeus*. It has the following structural formula:

[Structure Image]

Each gram contains Erythromycin USP 5 mg in a sterile ophthalmic base of mineral oil and white petrolatum.

#### **Microbiology:**

Erythromycin inhibits protein synthesis without affecting nucleic acid synthesis. Erythromycin is usually active against the following organisms in vitro and in clinical infections:

*Streptococcus pyogenes* (group A  $\beta$ -hemolytic)

Alpha-hemolytic streptococci (viridans group)

*Staphylococcus aureus*, including penicillinase-producing strains (methicillin-resistant staphylococci are uniformly resistant to erythromycin)

*Streptococcus pneumoniae*

*Mycoplasma pneumoniae* (Eaton Agent, PPL0)

*Haemophilus influenzae* (not all strains of this organism are susceptible at the erythromycin concentrations ordinarily achieved)

*Treponema pallidum*

*Corynebacterium diphtheriae*

*Neisseria gonorrhoeae*

*Chlamydia trachomatis*

For the treatment of superficial ocular infections involving the conjunctiva and/or cornea caused by organisms susceptible to erythromycin.

For prophylaxis of ophthalmia neonatorum due to *N. gonorrhoeae* or *C. trachomatis*. The effectiveness of erythromycin in the prevention of ophthalmia caused by penicillinase-producing *N. gonorrhoeae* is not established.

For infants born to mothers with clinically apparent gonorrhea, intravenous or intramuscular injections of aqueous crystalline penicillin G should be given; a single dose of 50,000 units for term infants or 20,000 units for infants of low birth weight. Topical prophylaxis alone is inadequate for these infants.

This drug is contraindicated in patients with a history of hypersensitivity to erythromycin.

#### **General:**

The use of antimicrobial agents may be associated with the overgrowth of nonsusceptible organisms including fungi; in such a case, antibiotic administration should be stopped and appropriate measures taken.

#### Information for Patients:

Avoid contaminating the applicator tip with material from the eye, fingers, or other source.

#### Carcinogenesis, Mutagenesis, Impairment of Fertility:

Two year oral studies conducted in rats with erythromycin did not provide evidence of tumorigenicity. Mutagenicity studies have not been conducted.

No evidence of impaired fertility that appeared related to erythromycin was reported in animal studies.

#### Pregnancy:

Teratogenic effects -

#### Pregnancy Category B.

Reproduction studies have been performed in rats, mice, and rabbits using erythromycin and its various salts and esters, at doses that were several multiples of the usual human dose. No evidence of harm to the fetus that appeared related to erythromycin was reported in these studies. There are, however, no adequate and well controlled studies in pregnant women. Because animal reproductive studies are not always predictive of human response, the erythromycins should be used during pregnancy only if clearly needed.

#### Nursing Mothers:

Caution should be exercised when erythromycin is administered to a nursing woman.

#### Pediatric Use:

See INDICATIONS AND USAGE and DOSAGE AND ADMINISTRATION.

The most frequently reported adverse reactions are minor ocular irritations, redness, and hypersensitivity reactions.

To report SUSPECTED ADVERSE REACTIONS, contact Perrigo at 1-866-634-9120 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

In the treatment of superficial ocular infections, a ribbon approximately 1 cm in length of Erythromycin Ophthalmic Ointment should be applied directly to the infected structure up to 6 times daily, depending on the severity of the infection. For prophylaxis of neonatal gonococcal or chlamydial conjunctivitis, a ribbon of ointment approximately 1 cm in length should be instilled into each lower conjunctival sac. The ointment should not be flushed from the eye following instillation. A new tube should be used for each infant.

Sterile Erythromycin Ophthalmic Ointment USP, 5 mg/g as follows:

3.5 g (1/8 oz) tamper-evident tubes

24 x 3.5 g (1/8 oz) Hospital-Pak (for hospital use only)

Carton of fifty (50) Unit Dose 1 g tubes NDC 0574-4024-50

Store at controlled room temperature 15°-30°C (59°-86°F). Avoid excessive heat.

Protect from freezing.

Manufactured For

Perrigo®

Minneapolis, MN 55427

SW700 RC J1 Rev 09-13 A

R1013

Ini 0813



## ERYTHROMYCIN

erythromycin ointment

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:72189-036(NDC:0574-4024)
<b>Route of Administration</b>	OPHTHALMIC		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ERYTHROMYCIN (UNII: 63937KV33D) (ERYTHROMYCIN - UNII:63937KV33D)	ERYTHROMYCIN	5 mg in 1 g

### Inactive Ingredients

Ingredient Name	Strength
PETROLATUM (UNII: 4T6H12BN9U)	
MINERAL OIL (UNII: T5L8T28FGP)	

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:72189-036-35	1 g in 1 TUBE; Type 0: Not a Combination Product	10/08/2019	

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA062447	10/08/2019	

**Labeler** - Direct\_Rx (079254320)

**Registrant** - Direct\_Rx (079254320)

**Establishment**

Name	Address	ID/FEI	Business Operations
Direct_Rx		079254320	repack(72189-036)

Revised: 10/2019

Direct\_Rx