# **GENTAMICIN SULFATE-** gentamicin sulfate solution/ drops NuCare Pharmaceuticals, Inc.

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## Gentamicin Sulfate Ophthalmic Solution USP, 0.3%

Sterile

Rx only

## **DESCRIPTION**

Gentamicin sulfate is a water-soluble antibiotic of the aminoglycoside group.

Gentamicin Sulfate Ophthalmic Solution is a sterile, aqueous solution for ophthalmic use.

## Each mL contains:

**Active:** Gentamicin Sulfate USP (equivalent to 3 mg gentamicin base)

**Preservative:** Benzalkonium Chloride

Inactives: Disodium Phosphate, Monosodium Phosphate, and Sodium Chloride. The pH

range is from 6.8 to 7.3.

Gentamicin is obtained from cultures of *Micromonospora purpurea*. It is a mixture of the sulfate salts of gentamicin C  $_1$ , C  $_2$ , and C  $_{1A}$ . All three components appear to have similar antimicrobial activities. Gentamicin sulfate occurs as a white powder and is soluble in water and insoluble in alcohol. The structural formula is as follows:

## **CLINICAL PHARMACOLOGY**

## Microbiology

Gentamicin sulfate is active *in vitro* against many strains of the following microorganisms:

• Staphylococcus aureus, Staphylococcus epidermidis, Streptococcus pyogenes, Streptococcus pneumoniae, Enterobacter aerogenes, Escherichia coli, Haemophilus influenzae, Klebsiella pneumoniae, Neisseria gonorrhoeae, Pseudomonas aeruginosa, and Serratia marcescens.

## INDICATIONS AND USAGE

Gentamicin Sulfate Sterile Ophthalmic Solution is indicated in the topical treatment of ocular bacterial infections, including conjunctivitis, keratitis, keratoconjunctivitis, corneal ulcers, blepharitis, blepharoconjunctivitis, acute meibomianitis, and dacryocystitis caused by susceptible strains of the following microorganisms:

• Staphylococcus aureus, Staphylococcus epidermidis, Streptococcus pyogenes, Streptococcus pneumoniae, Enterobacter aerogenes, Escherichia coli, Haemophilus influenzae, Klebsiella pneumoniae, Neisseria gonorrhoeae, Pseudomonas aeruginosa, and Serratia marcescens.

## CONTRAINDICATIONS

Gentamicin Sulfate Sterile Ophthalmic Solution is contraindicated in patients with known hypersensitivity to any of the components.

### WARNINGS

NOT FOR INJECTION INTO THE EYE. Gentamicin Sulfate Ophthalmic Solution is not for injection. It should never be injected subconjunctivally, nor should it be directly introduced into the anterior chamber of the eye.

### **PRECAUTIONS**

#### General

Prolonged use of topical antibiotics may give rise to overgrowth of nonsusceptible organisms including fungi. Bacterial resistance to gentamicin may also develop. If purulent discharge, inflammation or pain becomes aggravated, the patient should discontinue use of the medication and consult a physician.

If irritation or hypersensitivity to any component of the drug develops, the patient should discontinue use of this preparation and appropriate therapy should be instituted.

## Information for patients

To avoid contamination, do not touch tip of container to the eye, eyelid or any surface.

## Carcinogenesis, Mutagenesis, Impairment of Fertility

There are no published carcinogenicity or impairment of fertility studies on gentamicin. Aminoglycoside antibiotics have been found to be non mutagenic.

## **Pregnancy**

## Pregnancy Category C

Gentamicin has been shown to depress body weights, kidney weights and median glomerular counts in newborn rats when administered systemically to pregnant rats in daily doses approximately 500 times the maximum recommended ophthalmic human dose. There are no adequate and well-controlled studies in pregnant women. Gentamicin should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

## **Pediatric Use**

Safety and effectiveness in neonates have not been established.

#### **ADVERSE REACTIONS**

Bacterial and fungal corneal ulcers have developed during treatment with gentamicin ophthalmic preparations.

The most frequently reported adverse reactions are ocular burning and irritation upon drug instillation, non-specific conjunctivitis, conjunctival epithelial defects and conjunctival hyperemia.

Other adverse reactions which have occurred rarely are allergic reactions, thrombocytopenic purpura and hallucinations.

## **DOSAGE AND ADMINISTRATION**

Gentamicin Sulfate sterile ophthalmic solution; Instill one or two drops into the affected eye(s) every four hours. In severe infections, dosage may be increased to as much as two drops once every hour.

## **HOW SUPPLIED**

Gentamicin Sulfate ophthalmic solution - Sterile, 5-mL plastic dropper bottle, box of one. (NDC 66267-971-05)

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

Avoid exposure to excessive heat.

#### Akorn

Manufactured by: **Akorn, Inc.** Lake Forest, IL 60045

GK00N

Rev. 11/11



## **GENTAMICIN SULFATE**

gentamicin sulfate solution/ drops

#### **Product Information**

Product Type

HUMAN PRESCRIPTION DRUG

HUMAN PRESCRIPTION (Source)

NDC:66267-971(NDC:17478-283)

**Route of Administration** OPHTHALMIC

# Active Ingredient/Active Moiety Ingredient Name Basis of Strength GENTAMICIN SULFATE (UNII: 8X7386QRLV) (GENTAMICIN - UNII:T6Z9V48IKG) GENTAMICIN GENTAMICIN 3 mg in 1 mL

Inactive Ingredients				
Ingredient Name	Strength			
SODIUM PHOSPHATE, DIBASIC, ANHYDROUS (UNII: 22ADO53M6F)				
SODIUM PHOSPHATE, MONOBASIC (UNII: 3980JIH2SW)				
SODIUM CHLORIDE (UNII: 451W47IQ8X)				
BENZALKONIUM CHLORIDE (UNII: F5UM2KM3W7)				

Packaging					
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:66267- 971-05	1 in 1 CARTON	03/16/2017		
1		5 mL in 1 BOTTLE, DROPPER; Type 0: Not a Combination Product			

Marketing Information						
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date			
ANDA	ANDA064163	12/13/2006				

## Labeler - NuCare Pharmaceuticals, Inc. (010632300)

Establishment						
Name	Address	ID/FEI	<b>Business Operations</b>			
NuCare Pharmaceuticals, Inc.		010632300	relabel(66267-971)			

Revised: 1/2022 NuCare Pharmaceuticals, Inc.