

# PHENYLEPHRINE HYDROCHLORIDE - phenylephrine hydrochloride solution/ drops

Gland Pharma Limited

## HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use PHENYLEPHRINE HYDROCHLORIDE OPHTHALMIC SOLUTION, USP safely and effectively. See full prescribing information for PHENYLEPHRINE HYDROCHLORIDE OPHTHALMIC SOLUTION, USP. PHENYLEPHRINE HYDROCHLORIDE ophthalmic solution, USP 2.5% and 10%. Initial U.S. Approval: 1939

## INDICATIONS AND USAGE

Phenylephrine Hydrochloride Ophthalmic Solution is an alpha-1 adrenergic receptor agonist indicated to dilate the pupil (1)

## DOSAGE AND ADMINISTRATION

For patients 1 year of age and older: (2.1)

- Apply one drop of Phenylephrine Hydrochloride Ophthalmic Solution (2.5% or 10% strength) to conjunctival fornix at 3 to 5 minute intervals up to a maximum of 3 drops per eye.
- To obtain a greater degree of mydriasis, use 10% strength

For pediatric patients less than 1 year of age: (2.2)

- Instill one drop of 2.5% strength to conjunctival fornix at 3 to 5 minute intervals up to a maximum of 3 drops per eye

## DOSAGE FORMS AND STRENGTHS

Ophthalmic solution (sterile): (3)

- 25 mg of phenylephrine hydrochloride in one mL of solution (2.5%)
- 100 mg of phenylephrine hydrochloride in one mL of solution (10%)

## CONTRAINDICATIONS

The 10% strength is contraindicated in:

- Patients with hypertension, or thyrotoxicosis (4.1)
- Pediatric patients less than 1 year of age due to increased risk of systemic toxicity (4.2)

## WARNINGS AND PRECAUTIONS

- Not for injection: Topical ophthalmic use only (5.1)
- Serious cardiovascular reactions with 10% strength: Reactions have included ventricular arrhythmias and some have been fatal. Monitor blood pressure in patients with cardiovascular disease (5.2).
- Significant elevations in blood pressure: Caution in pediatric patients less than 5 years of age, and in patients with cardiovascular disease or hyperthyroidism. In patients at high risk, monitor blood pressure post treatment (5.3).
- Rebound miosis: Reported one day after instillation (5.4)

## ADVERSE REACTIONS

- Ocular adverse reactions include eye pain and stinging on instillation, temporary blurred vision, and photophobia (6.1)
- Cardiovascular adverse reactions include increase in blood pressure, syncope, myocardial infarction, tachycardia, arrhythmia and subarachnoid hemorrhage (6.2)

To report SUSPECTED ADVERSE REACTIONS, contact Gland pharma at 609-250-7990 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch)

## DRUG INTERACTIONS

- Atropine-like drugs: May exaggerate the adrenergic pressor response (7.1)
- Potent inhalation anesthetic agents: May potentiate cardiovascular depressant effects (7.1)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 12/2024

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

Phenylephrine Hydrochloride Ophthalmic Solution, USP 2.5% and 10%, is indicated to dilate the pupil.

## **2 DOSAGE AND ADMINISTRATION**

### **2.1 General Dosing Recommendations**

In patients 1 year of age or greater, apply one drop of either phenylephrine hydrochloride ophthalmic solution 2.5% or 10% every 3 to 5 minutes to the conjunctival fornix as required up to a maximum of 3 drops per eye per day.

In order to obtain a greater degree of mydriasis, phenylephrine hydrochloride ophthalmic solution 10% may be needed.

### **2.2 Dosing in Pediatric Patients Less Than 1 Year of Age**

In pediatric patients less than 1 year of age, one drop of phenylephrine hydrochloride ophthalmic solution 2.5% should be instilled at 3 to 5 minute intervals up to a maximum of 3 drops per eye.

## **3 DOSAGE FORMS AND STRENGTHS**

Phenylephrine hydrochloride ophthalmic solution, USP 2.5% is a clear, colorless to yellow solution and free of foreign matter, sterile topical ophthalmic solution containing phenylephrine hydrochloride 2.5%: each mL contains 25 mg of phenylephrine hydrochloride.

Phenylephrine hydrochloride ophthalmic solution, USP 10% is a clear, colorless to yellow solution and free of foreign matter, sterile topical ophthalmic solution containing phenylephrine hydrochloride 10%.: each mL contains 100 mg of phenylephrine hydrochloride.

## **4 CONTRAINDICATIONS**

### **4.1 Cardiac and Endocrine Disease**

Phenylephrine hydrochloride ophthalmic solution 10% is contraindicated in patients with hypertension or thyrotoxicosis. Phenylephrine hydrochloride ophthalmic solution 2.5% should be used in these patients.

### **4.2 Pediatric Patients Less Than 1 Year of Age**

Phenylephrine hydrochloride ophthalmic solution 10% is contraindicated in pediatric patients less than 1 year of age due to the increased risk of systemic toxicity. Phenylephrine hydrochloride ophthalmic solution 2.5% should be used in these patients [*See Dosage and Administration (2.2)*].

## **5 WARNINGS AND PRECAUTIONS**

### **5.1 Topical Ophthalmic Use Only**

Phenylephrine hydrochloride ophthalmic solution 2.5% and 10% is not indicated for injection.

### **5.2 Cardiovascular Reactions**

There have been reports of serious cardiovascular reactions, including ventricular arrhythmias and myocardial infarctions, in patients using phenylephrine 10%. These episodes, some fatal, have usually occurred in patients with pre-existing cardiovascular diseases. Phenylephrine Hydrochloride Ophthalmic Solution, USP 2.5% should be used in these patients.

### **5.3 Elevation of Blood Pressure**

A significant elevation in blood pressure is not common but has been reported following conjunctival instillation of recommended doses of phenylephrine 10%. The risk is less with phenylephrine 2.5%. Caution should be exercised with the use of phenylephrine 10% in pediatric patients less than 5 years of age and patients with hyperthyroidism, or cardiovascular disease. The post-treatment blood pressure of patients with cardiac and endocrine diseases and any patients who develop symptoms should be carefully monitored.

### **5.4 Rebound Miosis**

Rebound miosis has been reported one day after receiving phenylephrine hydrochloride ophthalmic solution, and re-instillation of the drug produced a lesser mydriatic effect.

## **6 ADVERSE REACTIONS**

The following serious adverse reactions are described below and elsewhere in the labeling:

- Cardiovascular Effects [*See Warnings and Precautions (5.2)*]
- Elevation in Blood Pressure [*See Warnings and Precautions (5.3)*]

The following adverse reactions have been identified following use of phenylephrine hydrochloride ophthalmic solution. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

### **6.1 Ocular Adverse Reactions**

Eye pain and stinging on instillation, temporary blurred vision and photophobia, and

conjunctival sensitization may occur.

## **6.2 Systemic Adverse Reactions**

A marked increase in blood pressure has been reported particularly, but not limited to low weight premature neonates, infants and hypertensive patients. Cardiovascular effects which have been seen primarily in hypertensive patients following topical ocular use of phenylephrine hydrochloride ophthalmic solution 10% include marked increase in blood pressure, syncope, myocardial infarction, tachycardia, arrhythmia and subarachnoid hemorrhage [*See Warnings and Precautions (5.2 and 5.3)*].

## **7 DRUG INTERACTIONS**

### **7.1 Agents That May Exaggerate Pressor Responses**

Concomitant use of phenylephrine and atropine may enhance the pressor effects and induce tachycardia in some patients. Phenylephrine may potentiate the cardiovascular depressant effects of some inhalation anesthetic agents.

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

Animal reproduction studies have not been conducted with topical phenylephrine. It is also not known whether phenylephrine can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Phenylephrine hydrochloride should be given to a pregnant woman only if clearly needed.

### **8.3 Nursing Mothers**

It is not known whether this drug is excreted in human breast milk. Because many drugs are excreted in human milk, caution should be exercised when phenylephrine hydrochloride ophthalmic solution 2.5% and 10% is administered to a nursing woman.

### **8.4 Pediatric Use**

Phenylephrine hydrochloride ophthalmic solution 10% is contraindicated in pediatric patients less than 1 year of age [*See Contraindications (4.2)*].

### **8.5 Geriatric Use**

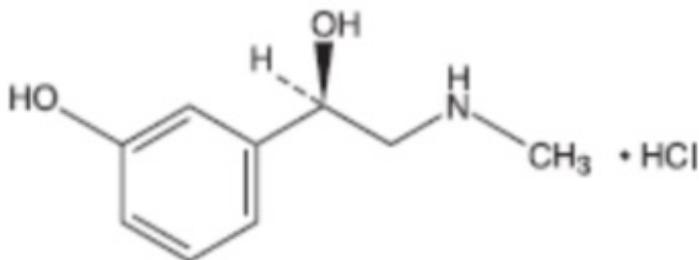
No overall differences in safety and effectiveness have been observed between elderly and younger adult patients.

## 10 OVERDOSAGE

Overdosage of phenylephrine may cause a rapid rise in blood pressure. It may also cause headache, anxiety, nausea, and vomiting, and ventricular arrhythmias. Prompt injection of a rapidly acting alpha-adrenergic blocking agent such as phentolamine has been recommended.

## 11 DESCRIPTION

Phenylephrine Hydrochloride Ophthalmic Solution, USP is a sterile, clear, colorless to yellow solution and free of foreign matter, topical  $\alpha$ -adrenergic agonist for ophthalmic use. The active ingredient is represented by the chemical structure



Chemical Name: (R)-3-hydroxy- $\alpha$ [(methylamino)methyl] benzenemethanol hydrochloride.

Molecular Formula:  $C_9H_{13}NO_2 \cdot HCl$

Molecular Weight: 203.67 g/mol

Each mL of Phenylephrine Hydrochloride Ophthalmic Solution, USP 2.5% contains: ACTIVE: Phenylephrine Hydrochloride 25 mg (2.5%); INACTIVES: Sodium Phosphate Monobasic Anhydrous, Sodium Phosphate Dibasic Anhydrous, Water for Injection. Phosphoric Acid and/or Sodium Hydroxide may be added to adjust pH (4.0 to 7.0). The solution has a tonicity of 340 mOsm/kg; PRESERVATIVE: Benzalkonium Chloride 0.1 mg (0.01%).

Each mL of Phenylephrine Hydrochloride Ophthalmic Solution, USP 10% contains: ACTIVE: Phenylephrine Hydrochloride 100 mg (10%); INACTIVES: Sodium Phosphate Monobasic Anhydrous, Sodium Phosphate Dibasic Anhydrous, Water for Injection. Phosphoric Acid and/or Sodium Hydroxide may be added to adjust pH (4.0 to 7.0). The solution has a tonicity of 985 mOsm/kg; PRESERVATIVE: Benzalkonium Chloride 0.1 mg (0.01%).



NDC 68083-594-01

5 mL in 10 mL Bottle

After opening, Phenylephrine Hydrochloride Ophthalmic Solution, USP can be used until the expiration date on the bottle.

**Storage:** Store at 20° to 25°C (68° to 77°F).  
Keep container tightly closed.  
Protect from light and excessive heat.  
Do not use if solution is brown or contains precipitate.

## **17 PATIENT COUNSELING INFORMATION**

Advise patients not to touch the dropper tip to any surface as this may contaminate the solution. Inform patients that they may experience sensitivity to light and should protect their eyes in bright illumination while their pupils are dilated.

**Manufactured by:**  
**Gland Pharma Limited**  
Hyderabad-500 043, INDIA

Revised: 12/2024

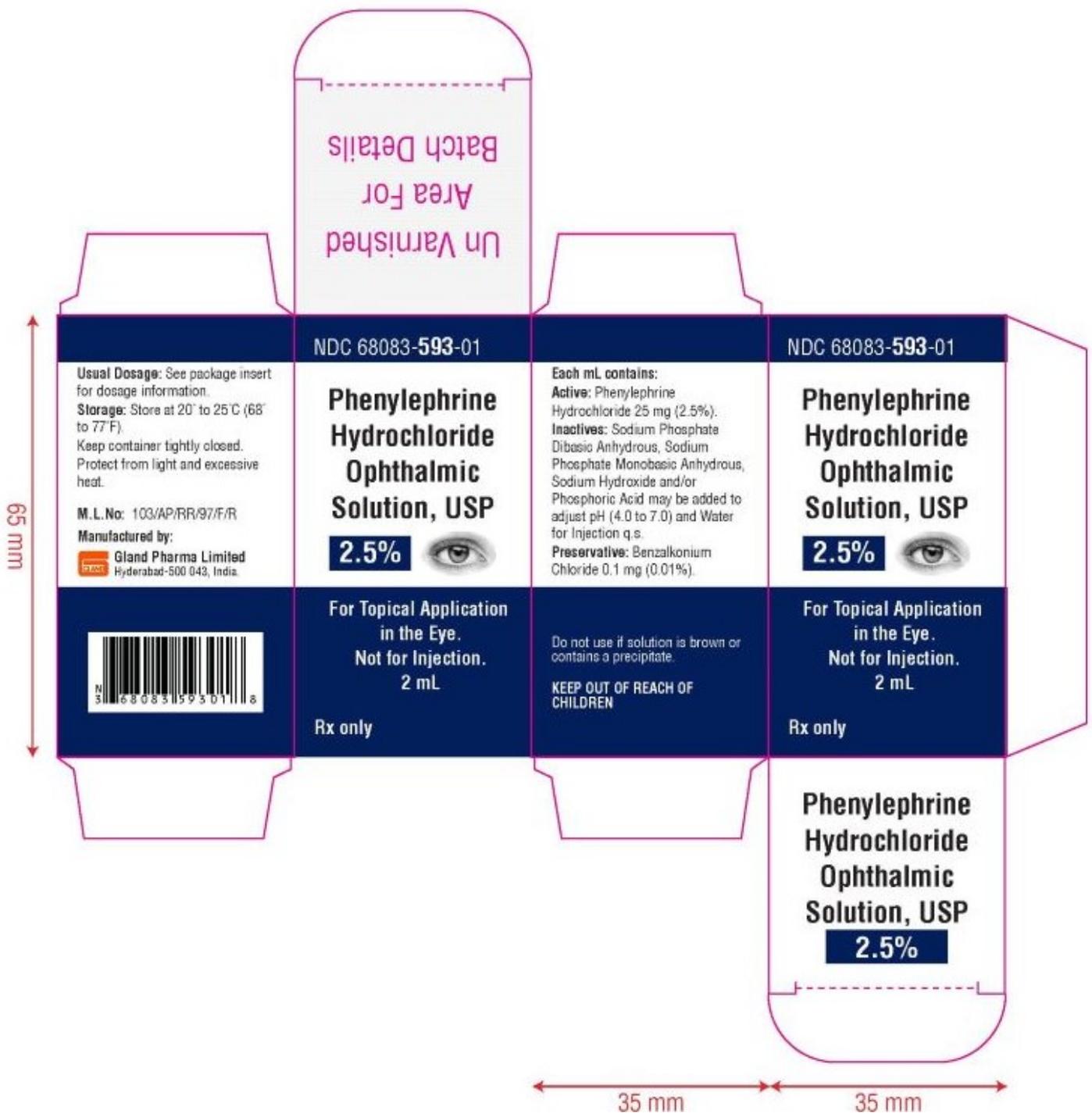
## **PACKAGE LABEL.PRINCIPAL DISPLAY PANEL**

### **Package-Carton-Label-2-mL**

NDC 68083-593-01  
Phenylephrine  
Hydrochloride  
Ophthalmic  
Solution, USP

2.5%

For Topical Application  
in the Eye.  
Not for Injection.  
2 mL  
Rx only



**Package-Container-Label-2-mL**

NDC 68083-593-01

Phenylephrine  
Hydrochloride  
Ophthalmic  
Solution, USP  
2.5%

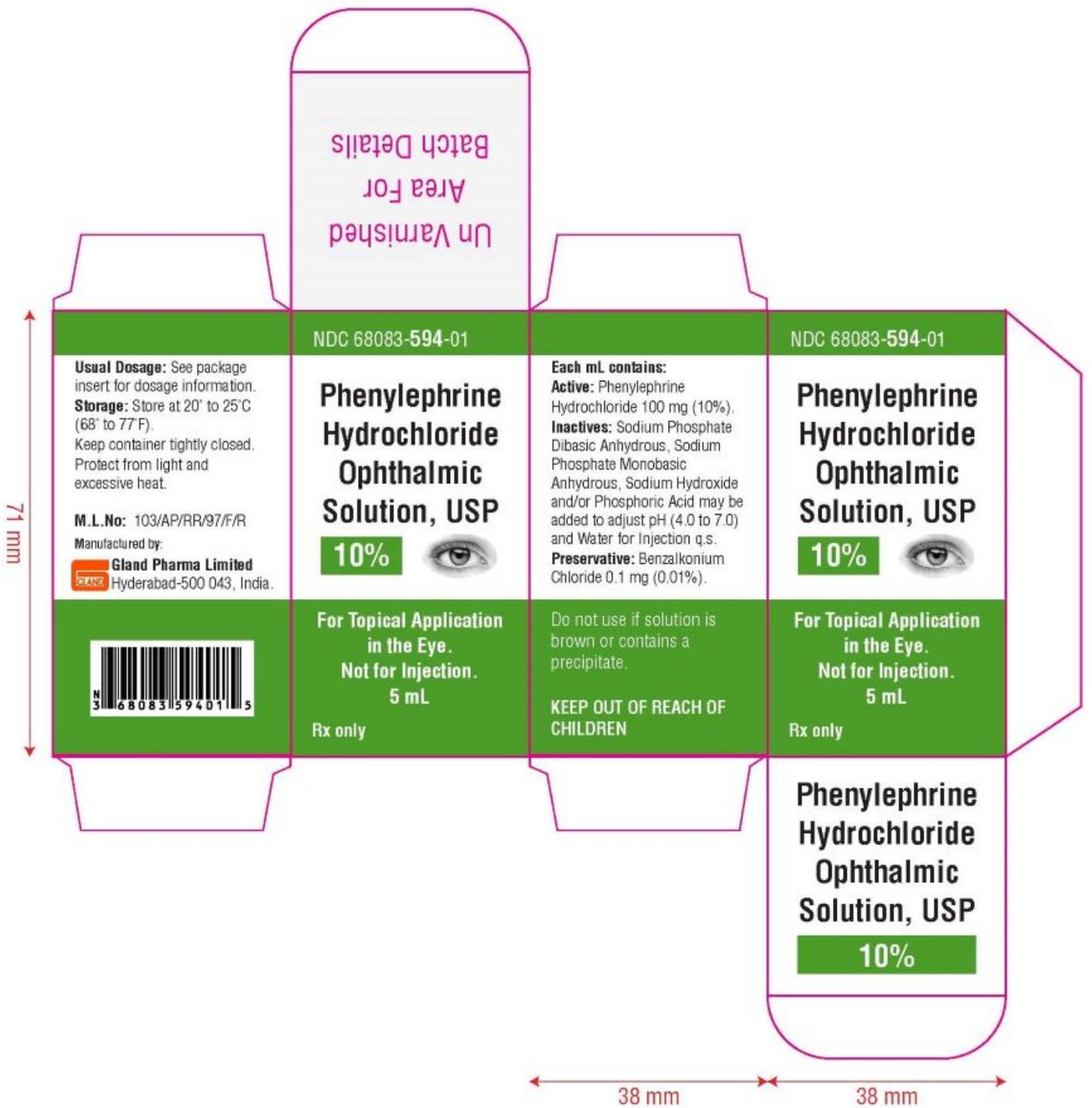
For Topical Application  
in the Eye.  
Not for Injection.

2 mL  
Rx only

	<b>Each mL contains:</b> <b>Active:</b> Phenylephrine Hydrochloride 25 mg (2.5%). <b>Preservative:</b> Benzalkonium Chloride 0.1 mg (0.01%). <b>Usual Dosage:</b> See package insert for dosage information. <b>Storage:</b> Store at 20° to 25°C (68° to 77°F). Keep container tightly closed. Do not use if solution is brown or contains a precipitate.  After opening, Phenylephrine HCl Ophthalmic Solution, USP can be used until the expiration date on the bottle.	NDC 68083-593-01 <b>Phenylephrine Hydrochloride Ophthalmic Solution, USP</b> <b>2.5%</b> <b>For Topical Application in the Eye.</b> <b>Not for Injection.</b>	 (01) 0 0368083 593018	<b>Manufactured by:</b>  <b>Gland Pharma Limited</b> Hyderabad-500 043, India. M.L.No.: 103/AP/RR/97/F/R PSLAB-XXXXXX-XX	Lot: EXP:	<b>Un Varnished Area</b>
	Rx only	2 mL				

### Package-Carton-Label-5-mL

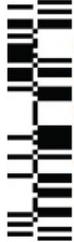
NDC 68083-594-01  
Phenylephrine  
Hydrochloride  
Ophthalmic  
Solution, USP  
10%  
For Topical Application  
in the Eye.  
Not for Injection.  
5 mL  
Rx only



**Package-Container-Label-5-mL**

NDC 68083-594-01  
 Phenylephrine  
 Hydrochloride  
 Ophthalmic  
 Solution, USP  
 10%  
 For Topical Application

in the Eye.  
Not for Injection.  
5 mL  
Rx only

<p><b>Each mL contains:</b> <b>Active:</b> Phenylephrine Hydrochloride 100 mg (10%). <b>Preservative:</b> Benzalkonium Chloride 0.1 mg (0.01%). <b>Usual Dosage:</b> See package insert for dosage information. <b>Storage:</b> Store at 20° to 25°C (68° to 77°F). Keep container tightly closed. Do not use if solution is brown or contains a precipitate.</p> <p>After opening, Phenylephrine HCl Ophthalmic Solution, USP can be used until the expiration date on the bottle.</p>	<p>NDC 68083-594-01 <b>Phenylephrine Hydrochloride Ophthalmic Solution, USP</b> <b>10%</b></p> <p>For Topical Application in the Eye. Not for Injection.</p> <p>Rx only  5 mL</p>	 <p>(01) 0 03668083 594015</p>	<p><b>Manufactured by:</b>  <b>Gland Pharma Limited</b> Hyderabad-500 043, India.</p> <p>M.L.No.: 103/AP/RR/97/F/R PSLAB-XXXXXX-XX</p> <p>Lot: EXP.</p> <p>Un Varnished Area</p>
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### Package-Carton-Label-15-mL

NDC 68083-680-01  
Phenylephrine  
Hydrochloride  
Ophthalmic  
Solution, USP

2.5%

For Topical Application  
in the Eye.  
15 mL  
Rx only



**Package-Container-Label-15-mL**

NDC 68083-680-01

Phenylephrine  
Hydrochloride  
Ophthalmic

Solution, USP  
 2.5%  
 For Topical Application in the Eye.  
 15 mL  
 Rx only

**Each mL contains:**  
**Active:** Phenylephrine Hydrochloride 25 mg (2.5%).

**Inactives:** Sodium Phosphate Dibasic Anhydrous, Sodium Phosphate Monobasic Anhydrous, Sodium Hydroxide and/or Phosphoric Acid may be added to adjust pH (4.0 to 7.0) and Water for Injection q.s.

**Preservative:** Benzalkonium Chloride 0.1 mg (0.01%).

**Storage:** Store at 20° to 25°C (68° to 77°F). Keep container tightly closed. Protect from light and excessive heat. Do not use if solution is brown or contains a precipitate.

**Usual Dosage:** See package insert for dosage information.

After opening, Phenylephrine HCl Ophthalmic Solution, USP can be used until the expiration date on the bottle.

NDC 68083-680-01

**Phenylephrine Hydrochloride  
 Ophthalmic Solution, USP**

**2.5%**

For Topical Application in the Eye.



Rx Only 15 mL

Manufactured by:  
 **GLAND PHARMA LIMITED**  
 D.P.Pally, Dundigal Post,  
 Hyderabad - 500043, India.  
 M.L.No.: 103/AP/RR/97/F/R

1311XXXXXX-XX

LOT: \_\_\_\_\_  
 EXP: \_\_\_\_\_

Unvarnished Area  
 18 x 10 mm

## PHENYLEPHRINE HYDROCHLORIDE

phenylephrine hydrochloride solution/ drops

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:68083-593
<b>Route of Administration</b>	OPHTHALMIC		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>PHENYLEPHRINE HYDROCHLORIDE</b> (UNII: 04JA59TNSJ) (PHENYLEPHRINE - UNII:1WS297W6MV)	PHENYLEPHRINE HYDROCHLORIDE	25 mg in 1 mL

### Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS</b> (UNII: KH7I04HPUU)	
<b>SODIUM PHOSPHATE, DIBASIC, ANHYDROUS</b> (UNII: 22ADO53M6F)	
<b>SODIUM HYDROXIDE</b> (UNII: 55X04QC32I)	
<b>PHOSPHORIC ACID</b> (UNII: E4GA8884NN)	
<b>WATER</b> (UNII: 059QF0KO0R)	
<b>BENZALKONIUM CHLORIDE</b> (UNII: F5UM2KM3W7)	

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
	NDC 68083			

1	NDC:68083-593-01	1 in 1 CARTON	12/18/2024	
1		2 mL in 1 BOTTLE, DROPPER; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA218129	12/18/2024	

## PHENYLEPHRINE HYDROCHLORIDE

phenylephrine hydrochloride solution/ drops

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68083-594
Route of Administration	OPHTHALMIC		

Active Ingredient/Active Moiety		
Ingredient Name	Basis of Strength	Strength
PHENYLEPHRINE HYDROCHLORIDE (UNII: 04JA59TNSJ) (PHENYLEPHRINE - UNII:1WS297W6MV)	PHENYLEPHRINE HYDROCHLORIDE	100 mg in 1 mL

Inactive Ingredients	
Ingredient Name	Strength
SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS (UNII: KH7I04HPUU)	
SODIUM PHOSPHATE, DIBASIC, ANHYDROUS (UNII: 22ADO53M6F)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
PHOSPHORIC ACID (UNII: E4GA8884NN)	
WATER (UNII: 059QF0K00R)	
BENZALKONIUM CHLORIDE (UNII: F5UM2KM3W7)	

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68083-594-01	1 in 1 CARTON	12/18/2024	
1		5 mL in 1 BOTTLE, DROPPER; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date

ANDA	ANDA218129	12/18/2024
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## PHENYLEPHRINE HYDROCHLORIDE

phenylephrine hydrochloride solution/ drops

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:68083-680
<b>Route of Administration</b>	OPHTHALMIC		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PHENYLEPHRINE HYDROCHLORIDE (UNII: 04JA59TNSJ) (PHENYLEPHRINE - UNII:1WS297W6MV)	PHENYLEPHRINE HYDROCHLORIDE	25 mg in 1 mL

### Inactive Ingredients

Ingredient Name	Strength
SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS (UNII: KH7I04HPUU)	
SODIUM PHOSPHATE, DIBASIC, ANHYDROUS (UNII: 22ADO53M6F)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
PHOSPHORIC ACID (UNII: E4GA8884NN)	
WATER (UNII: 059QF0KO0R)	
BENZALKONIUM CHLORIDE (UNII: F5UM2KM3W7)	

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68083-680-01	1 in 1 CARTON	09/17/2025	
1		15 mL in 1 BOTTLE, DROPPER; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA218129	09/17/2025	

**Labeler** - Gland Pharma Limited (918601238)

### Establishment

Name	Address	ID/FEI	Business Operations
GLAND			ANALYSIS(68083-593, 68083-594, 68083-680) , LABEL(68083-593, 68083-594,

PHARMA LIMITED	918601238	68083-680) , MANUFACTURE(68083-593, 68083-594, 68083-680) , PACK(68083-593, 68083-594, 68083-680)
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Revised: 9/2025

Gland Pharma Limited