

# **ISTALOL- timolol maleate solution/ drops**

## **Bausch & Lomb Incorporated**

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### **HIGHLIGHTS OF PRESCRIBING INFORMATION**

**These highlights do not include all the information needed to use ISTALOL safely and effectively. See full prescribing information for ISTALOL.**

**ISTALOL® (timolol maleate ophthalmic solution) 0.5%, for topical ophthalmic use**  
**Initial U.S. Approval: 1978**

### **INDICATIONS AND USAGE**

ISTALOL is a non-selective beta-adrenergic receptor blocking agent indicated for the treatment of elevated intraocular pressure in patients with ocular hypertension or open-angle glaucoma. (1)

### **DOSAGE AND ADMINISTRATION**

One drop in the affected eye(s) once a day in the AM. (2)

### **DOSAGE FORMS AND STRENGTHS**

Topical ophthalmic solution containing timolol maleate, 0.5% (5 mg/mL) (3)

### **CONTRAINDICATIONS**

- Bronchial asthma, a history of bronchial asthma, severe chronic obstructive pulmonary disease (4.1, 5.1, 5.3)
- Sinus bradycardia, second or third degree atrioventricular block, overt cardiac failure, cardiogenic shock (4.2, 5.2)
- Hypersensitivity to any component of this product (4.3)

### **WARNINGS AND PRECAUTIONS**

- Potentiation of Respiratory Reactions Including Asthma (5.1)
- Cardiac Failure (5.2)
- Obstructive Pulmonary Disease (5.3)
- Increased Reactivity to Allergens (5.4)
- Potentiation of Muscle Weakness (5.5)
- Masking of Hypoglycemic Symptoms in Patients with Diabetes Mellitus (5.6)
- Masking of Thyrotoxicosis (5.7)

### **ADVERSE REACTIONS**

The most frequently reported adverse reactions have been burning and stinging upon instillation in 38% of patients treated with ISTALOL. Additional reactions reported with ISTALOL at a frequency of 4 to 10% include: blurred vision, cataract, conjunctival injection, headache, hypertension, infection, itching and decreased visual acuity. (6)

**To report SUSPECTED ADVERSE REACTIONS, contact Bausch & Lomb Incorporated at 1-800-321-4576 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch)**

### **DRUG INTERACTIONS**

- Concomitant use with systemic beta-blockers may potentiate systemic beta-blockade. (7.1)
- Oral or intravenous calcium antagonists may cause atrioventricular conduction disturbances, left ventricular failure, and hypotension. (7.2)
- Catecholamine-depleting drugs may have additive effects and produce hypotension and/or marked bradycardia. (7.3)
- Digitalis and calcium antagonists may have additive effects in prolonging atrioventricular conduction time. (7.4)
- Potentiated systemic beta-blockade (e.g., decreased heart rate) has been reported during combined treatment with quinidine and timolol. (7.5)

**See 17 for PATIENT COUNSELING INFORMATION.**

**Revised: 10/2019**

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

ISTALOL® (timolol maleate ophthalmic solution) 0.5% is a non-selective beta-adrenergic receptor blocking agent indicated in the treatment of elevated intraocular pressure in patients with ocular hypertension or open-angle glaucoma.

### **2 DOSAGE AND ADMINISTRATION**

One drop of ISTALOL 0.5% should be administered in the affected eye(s) once a day in the AM.

### **3 DOSAGE FORMS AND STRENGTHS**

Topical ophthalmic solution containing 5 mg/mL timolol (6.8 mg/mL of timolol maleate).

### **4 CONTRAINDICATIONS**

#### **4.1 Asthma, COPD**

ISTALOL is contraindicated in patients with bronchial asthma; a history of bronchial asthma; severe chronic obstructive pulmonary disease [see *Warnings and Precautions (5.1, 5.3)*].

#### **4.2 Sinus Bradycardia, AV Block, Cardiac Failure, Cardiogenic Shock**

ISTALOL is contraindicated in patients with sinus bradycardia; second or third degree atrioventricular block; overt cardiac failure; cardiogenic shock [see *Warnings and Precautions (5.2)*].

#### **4.3 Hypersensitivity Reactions**

ISTALOL is contraindicated in patients who have exhibited a hypersensitivity reaction to any component of this product in the past.

### **5 WARNINGS AND PRECAUTIONS**

#### **5.1 Potentiation of Respiratory Reactions Including Asthma**

ISTALOL contains timolol maleate; and although administered topically, it can be absorbed systemically. Therefore, the same adverse reactions found with systemic administration of beta-adrenergic blocking agents may occur with topical administration. For example, severe respiratory reactions and cardiac reactions including death due to bronchospasm in patients with asthma, and rarely death in association with cardiac failure, have been reported following systemic or ophthalmic administration of timolol

maleate [see *Contraindications (4.1)*].

## **5.2 Cardiac Failure**

Sympathetic stimulation may be essential for support of the circulation in individuals with diminished myocardial contractility, and its inhibition of beta-adrenergic receptor blockade may precipitate more severe failure.

In patients without a history of cardiac failure, continued depression of the myocardium with beta-blocking agents over a period of time can, in some cases, lead to cardiac failure. At the first sign or symptom of cardiac failure, ISTALOL should be discontinued [see *Contraindications (4.2)*].

## **5.3 Obstructive Pulmonary Disease**

Patients with chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) of mild or moderate severity, bronchospastic disease, or a history of bronchospastic disease [other than bronchial asthma or a history of bronchial asthma in which ISTALOL is contraindicated] should, in general, not receive beta-blocking agents, including ISTALOL [see *Contraindications (4.1)*].

## **5.4 Increased Reactivity to Allergens**

While taking beta-blockers, patients with a history of atopy or a history of severe anaphylactic reactions to a variety of allergens may be more reactive to repeated accidental, diagnostic, or therapeutic challenge with such allergens. Such patients may be unresponsive to the usual doses of epinephrine used to treat anaphylactic reactions.

## **5.5 Potentiation of Muscle Weakness**

Beta-adrenergic blockade has been reported to potentiate muscle weakness consistent with certain myasthenic symptoms (e.g., diplopia, ptosis, and generalized weakness). Timolol has been reported rarely to increase muscle weakness in some patients with myasthenia gravis or myasthenic symptoms.

## **5.6 Masking of Hypoglycemic Symptoms in Patients with Diabetes Mellitus**

Beta-adrenergic blocking agents should be administered with caution in patients subject to spontaneous hypoglycemia or to diabetic patients (especially those with labile diabetes) who are receiving insulin or oral hypoglycemic agents. Beta-adrenergic receptor blocking agents may mask the signs and symptoms of acute hypoglycemia.

## **5.7 Masking of Thyrotoxicosis**

Beta-adrenergic blocking agents may mask certain clinical signs (e.g., tachycardia) of hyperthyroidism. Patients suspected of developing thyrotoxicosis should be managed carefully to avoid abrupt withdrawal of beta-adrenergic blocking agents that might precipitate a thyroid storm.

## **5.8 Contamination of Topical Ophthalmic Products After Use**

There have been reports of bacterial keratitis associated with the use of multidose containers of topical ophthalmic products. These containers had been inadvertently contaminated by patients who, in most cases, had a concurrent corneal disease or a

disruption of the ocular epithelial surface [see *Patient Counseling Information (17)*].

### **5.9 Impairment of Beta-adrenergically Mediated Reflexes During Surgery**

The necessity or desirability of withdrawal of beta-adrenergic blocking agents prior to major surgery is controversial. Beta-adrenergic receptor blockade impairs the ability of the heart to respond to beta-adrenergically mediated reflex stimuli. This may augment the risk of general anesthesia in surgical procedures. Some patients receiving beta-adrenergic receptor blocking agents have experienced protracted severe hypotension during anesthesia. Difficulty in restarting and maintaining the heartbeat has also been reported. For these reasons, in patients undergoing elective surgery, some authorities recommend gradual withdrawal of beta-adrenergic receptor blocking agents. If necessary during surgery, the effects of beta-adrenergic blocking agents may be reversed by sufficient doses of adrenergic agonists.

### **5.10 Angle-Closure Glaucoma**

In patients with angle-closure glaucoma, the immediate objective of treatment is to reopen the angle. This may require constricting the pupil. Timolol maleate has little or no effect on the pupil. ISTALOL should not be used alone in the treatment of angle-closure glaucoma.

### **5.11 Cerebrovascular Insufficiency**

Because of potential effects of beta-adrenergic blocking agents on blood pressure and pulse, these agents should be used with caution in patients with cerebrovascular insufficiency. If signs or symptoms suggesting reduced cerebral blood flow develop following initiation of therapy with ISTALOL, alternative therapy should be considered.

### **5.12 Choroidal Detachment**

Choroidal detachment after filtration procedures has been reported with the administration of aqueous suppressant therapy (e.g., timolol).

## **6 ADVERSE REACTIONS**

### **6.1 Clinical Trials Experience**

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The most frequently reported adverse reactions have been burning and stinging upon instillation in 38% of patients treated with ISTALOL. Additional reactions reported with ISTALOL at a frequency of 4 to 10% include: blurred vision, cataract, conjunctival injection, headache, hypertension, infection, itching and decreased visual acuity.

The following additional adverse reactions have been reported less frequently with ocular administration of this or other timolol maleate formulations.

#### **Timolol (Ocular Administration)**

*Body as a Whole:* Asthenia/fatigue and chest pain; *Cardiovascular:* Bradycardia,

arrhythmia, hypotension, syncope, heart block, cerebral vascular accident, cerebral ischemia, cardiac failure, worsening of angina pectoris, palpitation, cardiac arrest, pulmonary edema, edema, claudication, Raynaud's phenomenon and cold hands and feet; *Digestive*: Nausea, diarrhea, dyspepsia, anorexia, and dry mouth; *Immunologic*: Systemic lupus erythematosus; *Nervous System/Psychiatric*: Dizziness, increase in signs and symptoms of myasthenia gravis, paresthesia, somnolence, insomnia, nightmares, behavioral changes and psychic disturbances including depression, confusion, hallucinations, anxiety, disorientation, nervousness and memory loss; *Skin*: Alopecia and psoriasiform rash or exacerbation of psoriasis; *Hypersensitivity*: Signs and symptoms of systemic allergic reactions, including angioedema, urticaria, and localized and generalized rash; *Respiratory*: Bronchospasm (predominantly in patients with pre-existing bronchospastic disease), respiratory failure, dyspnea, nasal congestion, cough and upper respiratory infections; *Endocrine*: Masked symptoms of hypoglycemia in diabetic patients [see *Warnings and Precautions (5.6)*]; *Special Senses*: Signs and symptoms of ocular irritation including conjunctivitis, blepharitis, keratitis, ocular pain, discharge (e.g., crusting), foreign body sensation, itching and tearing, and dry eyes; ptosis, decreased corneal sensitivity; cystoid macular edema; visual disturbances including refractive changes and diplopia; pseudopemphigoid; choroidal detachment following filtration surgery [see *Warnings and Precautions (5.12)*]; *Urogenital*: Retroperitoneal fibrosis, decreased libido, impotence, and Peyronie's disease.

## **6.2 Postmarketing Experience**

### **Oral Timolol/Oral Beta-Blockers**

The following additional adverse effects have been reported in clinical experience with ORAL timolol maleate or other ORAL beta-blocking agents and may be considered potential effects of ophthalmic timolol maleate: *Allergic*: Erythematous rash, fever combined with aching and sore throat, laryngospasm with respiratory distress; *Body as a Whole*: Extremity pain, decreased exercise tolerance, weight loss; *Cardiovascular*: Worsening of arterial insufficiency, vasodilatation; *Digestive*: Gastrointestinal pain, hepatomegaly, vomiting, mesenteric arterial thrombosis, ischemic colitis; *Hematologic*: Nonthrombocytopenic purpura; thrombocytopenic purpura, agranulocytosis; *Endocrine*: Hyperglycemia, hypoglycemia; *Skin*: Pruritus, skin irritation, increased pigmentation, sweating; *Musculoskeletal*: Arthralgia; *Nervous System/Psychiatric*: Vertigo, local weakness, diminished concentration, reversible mental depression progressing to catatonia, an acute reversible syndrome characterized by disorientation for time and place, emotional lability, slightly clouded sensorium and decreased performance on neuropsychometrics; *Respiratory*: Rales, bronchial obstruction; *Urogenital*: Urination difficulties.

## **7 DRUG INTERACTIONS**

### **7.1 Beta-Adrenergic Blocking Agents**

Patients who are receiving a beta-adrenergic blocking agent orally and ISTALOL should be observed for potential additive effects of beta-blockade, both systemic and on intraocular pressure. The concomitant use of two topical beta-adrenergic blocking agents is not recommended.

### **7.2 Calcium Antagonists**

Caution should be used in the co-administration of beta-adrenergic blocking agents, such as ISTALOL, and oral or intravenous calcium antagonists because of possible atrioventricular conduction disturbances, left ventricular failure, and hypotension. In patients with impaired cardiac function, co-administration should be avoided.

### **7.3 Catecholamine-Depleting Drugs**

Close observation of the patient is recommended when a beta-blocker is administered to patients receiving catecholamine-depleting drugs such as reserpine, because of possible additive effects and the production of hypotension and/or marked bradycardia, which may result in vertigo, syncope, or postural hypotension.

### **7.4 Digitalis and Calcium Antagonists**

The concomitant use of beta-adrenergic blocking agents with digitalis and calcium antagonists may have additive effects in prolonging atrioventricular conduction time.

### **7.5 CYP2D6 Inhibitors**

Potentiated systemic beta-blockade (e.g., decreased heart rate) has been reported during combined treatment with CYP2D6 inhibitors (e.g., quinidine) and timolol.

### **7.6 Clonidine**

Oral beta-adrenergic blocking agents may exacerbate the rebound hypertension which can follow the withdrawal of clonidine. There have been no reports of exacerbation of rebound hypertension with ophthalmic timolol maleate.

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### **Teratogenic Effects**

Teratogenicity studies have been performed in animals.

Teratogenicity studies with timolol in mice, rats, and rabbits at oral doses up to 50 mg/kg/day (7,000 times the systemic exposure following the maximum recommended human ophthalmic dose) demonstrated no evidence of fetal malformations. Although delayed fetal ossification was observed at this dose in rats, there were no adverse effects on postnatal development of offspring. Doses of 1,000 mg/kg/day (142,000 times the systemic exposure following the maximum recommended human ophthalmic dose) were maternotoxic in mice and resulted in an increased number of fetal resorptions. Increased fetal resorptions were also seen in rabbits at doses of 14,000 times the systemic exposure following the maximum recommended human ophthalmic dose, in this case without apparent maternotoxicity.

There are no adequate and well-controlled studies in pregnant women. ISTALOL should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

### **8.3 Nursing Mothers**

Timolol has been detected in human milk following oral and ophthalmic drug administration. Because of the potential for serious adverse reactions from ISTALOL in nursing infants, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

#### 8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

#### 8.5 Geriatric Use

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

### 10 OVERDOSAGE

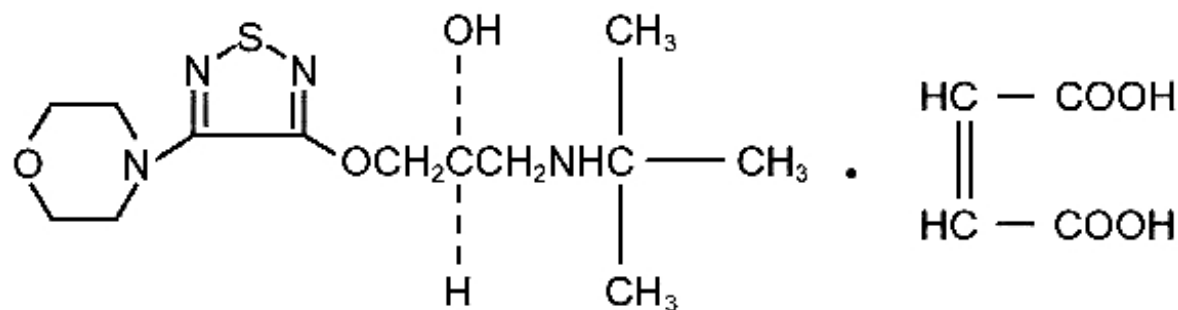
There have been reports of inadvertent overdosage with ISTALOL resulting in systemic effects similar to those seen with systemic beta-adrenergic blocking agents such as dizziness, headache, shortness of breath, bradycardia, bronchospasm, and cardiac arrest.

An *in vitro* hemodialysis study, using  $^{14}\text{C}$  timolol added to human plasma or whole blood, showed that timolol was readily dialyzed from these fluids; however, a study of patients with renal failure showed that timolol did not dialyze readily.

### 11 DESCRIPTION

ISTALOL (timolol maleate ophthalmic solution) 0.5% is a non-selective beta-adrenergic receptor blocking agent. Its chemical name is (-)-1-(*tert*-butylamino)-3-[(4-morpholino-1,2,5-thiadiazol-3-yl)oxy]-2-propanol maleate (1:1) (salt). Timolol maleate possesses an asymmetric carbon atom in its structure and is provided as the levo-isomer.

Its molecular formula is  $\text{C}_{13}\text{H}_{24}\text{N}_4\text{O}_3\text{S}\cdot\text{C}_4\text{H}_4\text{O}_4$  and its structural formula is:



Timolol maleate has a molecular weight of 432.49. It is a white, odorless, crystalline powder which is soluble in water, methanol, and alcohol. ISTALOL is stable at room temperature. ISTALOL ophthalmic solution is supplied as a sterile, isotonic, buffered, aqueous solution of timolol maleate in a single strength. It has a pH of 6.5-7.5 and an osmolality of 275-330 mOsm/kg.

Each mL of ISTALOL contains the active ingredient 5 mg of timolol (6.8 mg of timolol



maleate) with the inactive ingredients benzalkonium chloride (0.05 mg/mL), monobasic sodium phosphate monohydrate, potassium sorbate 0.47%, sodium chloride, sodium hydroxide, and purified water.

## **12 CLINICAL PHARMACOLOGY**

### **12.1 Mechanism of Action**

Timolol maleate is a beta<sub>1</sub> and beta<sub>2</sub> (non-selective) adrenergic receptor blocking agent that does not have significant intrinsic sympathomimetic, direct myocardial depressant, or local anesthetic (membrane-stabilizing) activity.

Beta-adrenergic receptor blockade reduces cardiac output in both healthy subjects and patients with heart disease. In patients with severe impairment of myocardial function, beta-adrenergic receptor blockade may inhibit the stimulatory effect of the sympathetic nervous system necessary to maintain adequate cardiac function.

Beta-adrenergic receptor blockade in the bronchi and bronchioles results in increased airway resistance from unopposed parasympathetic activity. Such an effect in patients with asthma or other bronchospastic conditions is potentially dangerous.

ISTALOL ophthalmic solution, when applied topically on the eye, has the action of reducing elevated as well as normal intraocular pressure, whether or not accompanied by glaucoma. Elevated intraocular pressure is a major risk factor in the pathogenesis of glaucomatous visual field loss. The higher the level of intraocular pressure, the greater the likelihood of glaucomatous visual field loss and optic nerve damage.

The onset of reduction in intraocular pressure following administration of ISTALOL can usually be detected within one-half hour after a single dose. The maximum effect usually occurs in one to two hours and significant lowering of intraocular pressure can be maintained for periods as long as 24 hours with a single dose. Repeated observations over a period of one year indicate that the intraocular pressure lowering effect of ISTALOL is well maintained.

The precise mechanism of the ocular hypotensive action of ISTALOL is not clearly established at this time. Tonography and fluorophotometry studies in man suggest that its predominant action may be related to reduced aqueous formation. However, in some studies a slight increase in outflow facility was also observed.

### **12.3 Pharmacokinetics**

In a study of plasma drug concentration in 12 healthy subjects, the systemic exposure to timolol was determined following twice daily administration of ISTALOL (exaggerated regimen) for eight days. With ISTALOL, mean plasma concentrations of timolol were 0.68 ng/mL and 0.88 ng/mL two hours after the first dose and the dose on the eighth day, respectively.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

In a two-year study of timolol maleate administered orally to rats, there was a statistically significant increase in the incidence of adrenal pheochromocytomas in male rats administered 300 mg/kg/day (approximately 42,000 times the systemic exposure following the maximum recommended human ophthalmic dose). Similar differences were not observed in rats administered oral doses equivalent to approximately 14,000 times the maximum recommended human ophthalmic dose.

In a lifetime oral study in mice, there were statistically significant increases in the incidence of benign and malignant pulmonary tumors, benign uterine polyps and mammary adenocarcinomas in female mice at 500 mg/kg/day, (approximately 71,000 times the systemic exposure following the maximum recommended human ophthalmic dose), but not at 5 or 50 mg/kg/day (approximately 700 or 7,000, respectively, times the systemic exposure following the maximum recommended human ophthalmic dose). In a subsequent study in female mice, in which post-mortem examinations were limited to the uterus and the lungs, a statistically significant increase in the incidence of pulmonary tumors was again observed at 500 mg/kg/day.

The increased occurrence of mammary adenocarcinomas was associated with elevations in serum prolactin which occurred in female mice administered oral timolol at 500 mg/kg/day, but not at doses of 5 or 50 mg/kg/day. An increased incidence of mammary adenocarcinomas in rodents has been associated with administration of several other therapeutic agents that elevate serum prolactin, but no correlation between serum prolactin levels and mammary tumors has been established in humans. Furthermore, in adult human female subjects who received oral dosages of up to 60 mg of timolol maleate (the maximum recommended human oral dosage), there were no clinically meaningful changes in serum prolactin.

Timolol maleate was devoid of mutagenic potential when tested *in vivo* (mouse) in the micronucleus test and cytogenetic assay (doses up to 800 mg/kg) and *in vitro* in a neoplastic cell transformation assay (up to 100 mcg/mL). In Ames tests the highest concentrations of timolol employed, 5,000 or 10,000 mcg/plate, were associated with statistically significant elevations of revertants observed with tester strain TA100 (in seven replicate assays), but not in the remaining three strains. In the assays with tester strain TA100, no consistent dose response relationship was observed, and the ratio of test to control revertants did not reach 2. A ratio of 2 is usually considered the criterion for a positive Ames test.

Reproduction and fertility studies in rats demonstrated no adverse effect on male or female fertility at doses up to 21,000 times the systemic exposure following the maximum recommended human ophthalmic dose.

## **14 CLINICAL STUDIES**

In a controlled, double-masked, parallel study in 332 patients with untreated intraocular pressures of 22 mm Hg or greater, ISTALOL 0.5% administered once daily (AM) was equivalent to timolol maleate ophthalmic solution 0.5% administered twice daily. In both groups, mean intraocular pressure decreased from 25 mm Hg at baseline to 18 mm Hg at peak and 19 mm Hg at trough. ISTALOL was generally well tolerated, and 3% of patients had treatment discontinued for adverse events judged related to treatment. There was a slight decrease in cardiovascular function consistent with known systemic absorption of a  $\beta$ -adrenoceptor antagonists.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

ISTALOL (timolol maleate ophthalmic solution) 0.5% is supplied in white LDPE bottles with 15 mm PP yellow caps and 15 mm LLDPE white dropper tips as follows:

NDC 24208-004-03 5 mL in 10 mL container  
NDC 24208-004-01 2.5 mL in 7.5 mL container

### **Storage:**

Store at 15° to 25°C (59° to 77°F).

## 17 PATIENT COUNSELING INFORMATION

Patients with bronchial asthma, a history of bronchial asthma, severe chronic obstructive pulmonary disease, sinus bradycardia, second or third degree atrioventricular block, or cardiac failure should be advised not to take this product [see *Contraindications (4.1, 4.2)*].

Patients should also be instructed that ocular solutions, if handled improperly or if the tip of the dispensing container contacts the eye or surrounding structures, can become contaminated by common bacteria known to cause ocular infections. Serious damage to the eye and subsequent loss of vision may result from using contaminated solutions [see *Warnings and Precautions (5.8)*].

Patients should also be advised that if they have ocular surgery or develop an intercurrent ocular condition (e.g., trauma or infection), they should immediately seek their physician's advice concerning the continued use of the present multidose container.

If more than one topical ophthalmic drug is being used, the drugs should be administered at least five minutes apart.

Patients should be advised that ISTALOL contains benzalkonium chloride which may be absorbed by soft contact lenses. Contact lenses should be removed prior to administration of the solution. Lenses may be reinserted 15 minutes following ISTALOL administration.

### **Distributed by:**

Bausch + Lomb, a division of  
Bausch Health US, LLC  
Bridgewater, NJ 08807 USA

### **Manufactured by:**

Bausch & Lomb Incorporated  
Tampa, FL 33637 USA

Under License from:  
Senju Pharmaceutical Co., Ltd.  
Osaka, Japan 541-0046

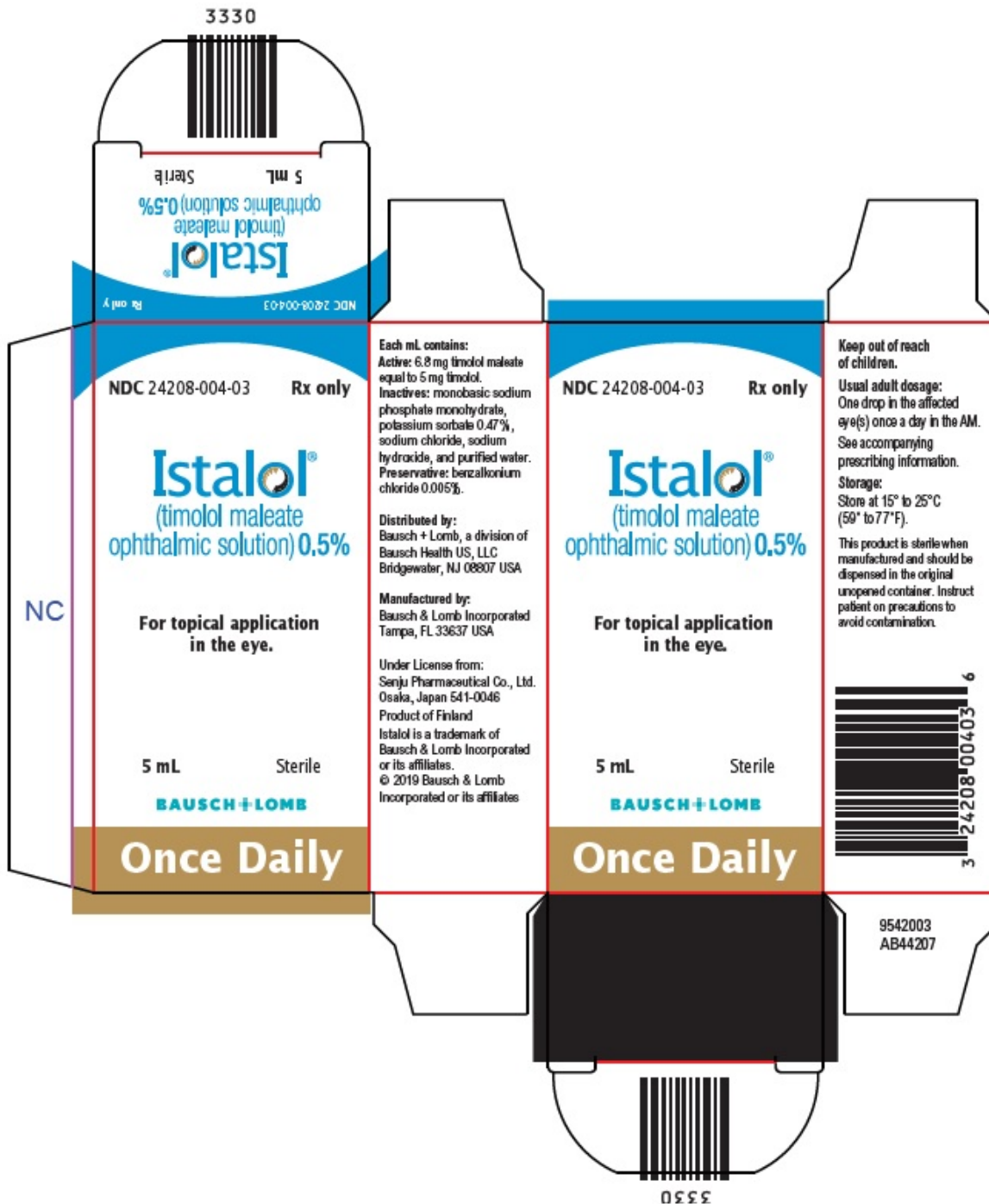
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9733100 (folded)

9733200 (flat)

## PACKAGE/LABEL PRINCIPAL DISPLAY PANEL



NDC 24208-004-03

**Rx only**

**Istalol®**

(timolol maleate  
ophthalmic solution) **0.5%**

**For topical application in the eye.**

**5mL**

Sterile

**BAUSCH + LOMB**

**Once Daily**

## ISTALOL

timolol maleate solution/ drops

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:24208-004
<b>Route of Administration</b>	OPHTHALMIC		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>TIMOLOL MALEATE</b> (UNII: P8Y54F701R) (TIMOLOL ANHYDROUS - UNII:5JKY92S7BR)	TIMOLOL ANHYDROUS	5 mg in 1 mL

### Inactive Ingredients

Ingredient Name	Strength
<b>BENZALKONIUM CHLORIDE</b> (UNII: F5UM2KM3W7)	0.05 mg in 1 mL
<b>SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE</b> (UNII: 593YOG76RN)	
<b>POTASSIUM SORBATE</b> (UNII: 1VPU26JZZ4)	
<b>SODIUM CHLORIDE</b> (UNII: 451W47IQ8X)	
<b>SODIUM HYDROXIDE</b> (UNII: 55X04QC32I)	
<b>WATER</b> (UNII: 059QF0KO0R)	

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:24208-004-03	1 in 1 CARTON	08/02/2004	
1		5 mL in 1 BOTTLE, DROPPER; Type 0: Not a Combination Product		
2	NDC:24208-004-01	1 in 1 CARTON	08/02/2004	
2		2.5 mL in 1 BOTTLE, DROPPER; Type 0: Not a Combination Product		

3	NDC:24208-004-02	1 in 1 CARTON	08/02/2004	
3		2.5 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
NDA	NDA021516	08/02/2004	

**Labeler** - Bausch & Lomb Incorporated (196603781)

## Establishment

Name	Address	ID/FEI	Business Operations
Bausch & Lomb Incorporated		079587625	MANUFACTURE(24208-004) , PACK(24208-004) , LABEL(24208-004)

Revised: 10/2019

Bausch & Lomb Incorporated