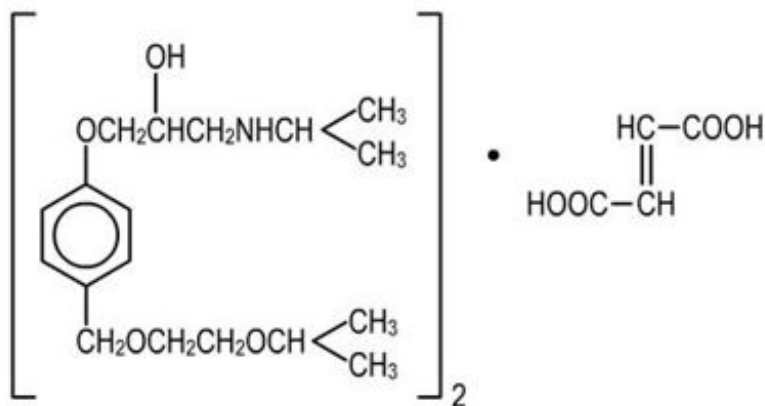


BISOPROLOL FUMARATE - bisoprolol fumarate tablet, film coated Bryant Ranch Prepack

Bisoprolol Fumarate Tablets, USP

DESCRIPTION

Bisoprolol fumarate is a synthetic, beta₁-selective (cardioselective) adrenoceptor blocking agent. The chemical name for bisoprolol fumarate is (±)-1-[4-[[2-(1-Methylethoxy)ethoxy]methyl]phenoxy]-3-[(1-methylethyl)amino]-2-propanol(*E*)-2-butenedioate (2:1) (salt). It possesses an asymmetric carbon atom in its structure and is provided as a racemic mixture. The S(-) enantiomer is responsible for most of the beta-blocking activity. Its empirical formula is (C₁₈H₃₁NO₄)₂•C₄H₄O₄ and its structure is:



Bisoprolol fumarate has a molecular weight of 766.97. It is a white crystalline powder which is approximately equally hydrophilic and lipophilic, and is readily soluble in water, methanol, ethanol, and chloroform.

Bisoprolol fumarate tablets, USP are available as 5 and 10 mg tablets for oral administration.

Inactive ingredients include Colloidal Silicon Dioxide, Corn Starch, Dibasic Calcium Phosphate, Hypromellose, Magnesium Stearate, Microcrystalline Cellulose, Polyethylene Glycol, Polysorbate 80, and Titanium Dioxide. The 5 mg tablets also contain FD&C Red # 40/Allura Red AC aluminum lake, FD&C Yellow # 6/Sunset Yellow FCF aluminum lake.

CLINICAL PHARMACOLOGY

Bisoprolol fumarate is a beta₁-selective (cardioselective) adrenoceptor blocking agent without significant membrane stabilizing activity or intrinsic sympathomimetic activity in

its therapeutic dosage range. Cardiselectivity is not absolute, however, and at higher doses (≥ 20 mg) bisoprolol fumarate also inhibits beta β_2 -adrenoceptors, chiefly located in the bronchial and vascular musculature; to retain selectivity it is therefore important to use the lowest effective dose.

Pharmacokinetics and Metabolism

The absolute bioavailability after a 10 mg oral dose of bisoprolol fumarate is about 80%. Absorption is not affected by the presence of food. The first pass metabolism of bisoprolol fumarate is about 20%.

Binding to serum proteins is approximately 30%. Peak plasma concentrations occur within 2-4 hours of dosing with 5 to 20 mg, and mean peak values range from 16 ng/mL at 5 mg to 70 ng/mL at 20 mg. Once daily dosing with bisoprolol fumarate results in less than twofold intersubject variation in peak plasma levels. The plasma elimination half-life is 9-12 hours and is slightly longer in elderly patients, in part because of decreased renal function in that population. Steady state is attained within 5 days of once daily dosing. In both young and elderly populations, plasma accumulation is low; the accumulation factor ranges from 1.1 to 1.3, and is what would be expected from the first order kinetics and once daily dosing. Plasma concentrations are proportional to the administered dose in the range of 5 to 20 mg. Pharmacokinetic characteristics of the two enantiomers are similar.

Bisoprolol fumarate is eliminated equally by renal and non-renal pathways with about 50% of the dose appearing unchanged in the urine and the remainder appearing in the form of inactive metabolites. In humans, the known metabolites are labile or have no known pharmacologic activity. Less than 2% of the dose is excreted in the feces. Bisoprolol fumarate is not metabolized by cytochrome P450 II D6 (debrisoquin hydroxylase).

In subjects with creatinine clearance less than 40 mL/min, the plasma half-life is increased approximately threefold compared to healthy subjects.

In patients with cirrhosis of the liver, the elimination of bisoprolol fumarate is more variable in rate and significantly slower than that in healthy subjects, with plasma half-life ranging from 8.3 to 21.7 hours.

Pharmacodynamics

The most prominent effect of bisoprolol fumarate is the negative chronotropic effect, resulting in a reduction in resting and exercise heart rate. There is a fall in resting and exercise cardiac output with little observed change in stroke volume, and only a small increase in right atrial pressure, or pulmonary capillary wedge pressure at rest or during exercise.

Findings in short-term clinical hemodynamics studies with bisoprolol fumarate are similar to those observed with other beta-blocking agents.

The mechanism of action of its antihypertensive effects has not been completely established. Factors which may be involved include:

- 1) Decreased cardiac output,
- 2) Inhibition of renin release by the kidneys,
- 3) Diminution of tonic sympathetic outflow from the vasomotor centers in the brain.

In normal volunteers, bisoprolol fumarate therapy resulted in a reduction of exercise- and isoproterenol-induced tachycardia. The maximal effect occurred within 1-4 hours post-dosing. Effects persisted for 24 hours at doses equal to or greater than 5 mg.

Electrophysiology studies in man have demonstrated that bisoprolol fumarate significantly decreases heart rate, increases sinus node recovery time, prolongs AV node refractory periods, and, with rapid atrial stimulation, prolongs AV nodal conduction.

Beta₁-selectivity of bisoprolol fumarate has been demonstrated in both animal and human studies. No effects at therapeutic doses on beta₂-adrenoceptor density have been observed. Pulmonary function studies have been conducted in healthy volunteers, asthmatics, and patients with chronic obstructive pulmonary disease (COPD). Doses of bisoprolol fumarate ranged from 5 to 60 mg, atenolol from 50 to 200 mg, metoprolol from 100 to 200 mg, and propranolol from 40 to 80 mg. In some studies, slight, asymptomatic increases in airways resistance (AWR) and decreases in forced expiratory volume (FEV₁) were observed with doses of bisoprolol fumarate 20 mg and higher, similar to the small increases in AWR also noted with the other cardioselective beta-blockers. The changes induced by beta-blockade with all agents were reversed by bronchodilator therapy.

Bisoprolol fumarate had minimal effect on serum lipids during antihypertensive studies. In U.S. placebo-controlled trials, changes in total cholesterol averaged +0.8% for bisoprolol fumarate-treated patients, and +0.7% for placebo. Changes in triglycerides averaged +19% for bisoprolol fumarate-treated patients, and +17% for placebo.

Bisoprolol fumarate has also been given concomitantly with thiazide diuretics. Even very low doses of hydrochlorothiazide (6.25 mg) were found to be additive with bisoprolol fumarate in lowering blood pressure in patients with mild-to-moderate hypertension.

CLINICAL STUDIES

In two randomized double-blind placebo-controlled trials conducted in the U.S., reductions in systolic and diastolic blood pressure and heart rate 24 hours after dosing in patients with mild-to-moderate hypertension are shown below. In both studies, mean systolic/diastolic blood pressures at baseline were approximately 150/100 mm Hg, and mean heart rate was 76 bpm. Drug effect is calculated by subtracting the placebo effect from the overall change in blood pressure and heart rate.

Heart Rate (HR)	Sitting Systolic/Diastolic Pressure (BP) and
	Mean Decrease (D) After 3 to 4
Weeks	

Study **Bisoprolol Fumarate**

<u>A</u> <u>Bisoprolol Fumarate</u>				
	<u>Placebo</u>	<u>5 mg</u>	<u>10 mg</u>	<u>20 mg</u>
n=	61	61	61	61
Total ΔBP (mm Hg)	5.4/3.2	10.4/8.0	11.2/10.9	12.8/11.9
Drug Effect ^a -		5.0/4.8	5.8/7.7	7.4/8.7
Total ΔHR (bpm)	0.5	7.2	8.7	11.3
Drug Effect ^a -		6.7	8.2	10.8

<u>Study B</u> <u>Bisoprolol Fumarate</u>			
	<u>Placebo</u>	<u>2.5 mg</u>	<u>10 mg</u>
n=	56	59	62
Total ΔBP (mm Hg)	3.0/3.7	7.6/8.1	13.5/11.2
Drug Effect ^a -		4.6/4.4	10.5/7.5
Total ΔHR (bpm)	1.6	3.8	10.7
Drug Effect ^a -		2.2	9.1

^a Observed total change from baseline minus placebo.

Blood pressure responses were seen within one week of treatment and changed little thereafter. They were sustained for 12 weeks and for over a year in studies of longer duration. Blood pressure returned to baseline when bisoprolol fumarate was tapered over two weeks in a long-term study.

Overall, significantly greater blood pressure reductions were observed on bisoprolol fumarate than on placebo regardless of race, age, or gender. There were no significant differences in response between black and nonblack patients.

INDICATIONS AND USAGE

Bisoprolol fumarate tablets are indicated in the management of hypertension. It may be used alone or in combination with other antihypertensive agents.

CONTRAINDICATIONS

Bisoprolol fumarate is contraindicated in patients with cardiogenic shock, overt cardiac

failure, second or third degree AV block, and marked sinus bradycardia.

WARNINGS

Cardiac Failure

Sympathetic stimulation is a vital component supporting circulatory function in the setting of congestive heart failure, and beta-blockade may result in further depression of myocardial contractility and precipitate more severe failure. In general, beta-blocking agents should be avoided in patients with overt congestive failure. However, in some patients with compensated cardiac failure it may be necessary to utilize them. In such a situation, they must be used cautiously.

In Patients Without a History of Cardiac Failure

Continued depression of the myocardium with beta-blockers can, in some patients, precipitate cardiac failure. At the first signs or symptoms of heart failure, discontinuation of bisoprolol fumarate should be considered. In some cases, beta-blocker therapy can be continued while heart failure is treated with other drugs.

Abrupt Cessation of Therapy

Exacerbation of angina pectoris, and, in some instances, myocardial infarction or ventricular arrhythmia, have been observed in patients with coronary artery disease following abrupt cessation of therapy with beta-blockers. Such patients should, therefore, be cautioned against interruption or discontinuation of therapy without the physician's advice. Even in patients without overt coronary artery disease, it may be advisable to taper therapy with bisoprolol fumarate over approximately one week with the patient under careful observation. If withdrawal symptoms occur, bisoprolol fumarate therapy should be reinstituted, at least temporarily.

Peripheral Vascular Disease

Beta-blockers can precipitate or aggravate symptoms of arterial insufficiency in patients with peripheral vascular disease. Caution should be exercised in such individuals.

Bronchospastic Disease

PATIENTS WITH BRONCHOSPASTIC DISEASE SHOULD, IN GENERAL, NOT RECEIVE BETA-BLOCKERS. Because of its relative beta ₁-selectivity, however, bisoprolol fumarate may be used with caution in patients with bronchospastic disease who do not respond to, or who cannot tolerate other antihypertensive treatment. Since beta ₁-selectivity is not absolute, the lowest possible dose of bisoprolol fumarate should be used, with therapy starting at 2.5 mg. A beta ₂ agonist (bronchodilator) should be made available.

Major Surgery

Chronically administered beta-blocking therapy should not be routinely withdrawn prior to major surgery; however, the impaired ability of the heart to respond to reflex adrenergic stimuli may augment the risks of general anesthesia and surgical procedures.

Diabetes and Hypoglycemia

Beta-blockers may mask some of the manifestations of hypoglycemia, particularly

tachycardia. Nonselective beta-blockers may potentiate insulin-induced hypoglycemia and delay recovery of serum glucose levels. Because of its beta₁-selectivity, this is less likely with bisoprolol fumarate. However, patients subject to spontaneous hypoglycemia, or diabetic patients receiving insulin or oral hypoglycemic agents, should be cautioned about these possibilities and bisoprolol fumarate should be used with caution.

Thyrotoxicosis

Beta-adrenergic blockade may mask clinical signs of hyperthyroidism, such as tachycardia. Abrupt withdrawal of beta-blockade may be followed by an exacerbation of the symptoms of hyperthyroidism or may precipitate thyroid storm.

PRECAUTIONS

Impaired Renal or Hepatic Function

Use caution in adjusting the dose of bisoprolol fumarate in patients with renal or hepatic impairment (see **CLINICAL PHARMACOLOGY** and **DOSAGE AND ADMINISTRATION**).

Drug Interactions

Bisoprolol fumarate should not be combined with other beta-blocking agents. Patients receiving catecholamine-depleting drugs, such as reserpine or guanethidine, should be closely monitored, because the added beta-adrenergic blocking action of bisoprolol fumarate may produce excessive reduction of sympathetic activity. In patients receiving concurrent therapy with clonidine, if therapy is to be discontinued, it is suggested that bisoprolol fumarate be discontinued for several days before the withdrawal of clonidine.

Bisoprolol fumarate should be used with care when myocardial depressants or inhibitors of AV conduction, such as certain calcium antagonists (particularly of the phenylalkylamine [verapamil] and benzothiazepine [diltiazem] classes), or antiarrhythmic agents, such as disopyramide, are used concurrently.

Both digitalis glycosides and beta-blockers slow atrioventricular conduction and decrease heart rate. Concomitant use can increase the risk of bradycardia.

Concurrent use of rifampin increases the metabolic clearance of bisoprolol fumarate, resulting in a shortened elimination half-life of bisoprolol fumarate. However, initial dose modification is generally not necessary. Pharmacokinetic studies document no clinically relevant interactions with other agents given concomitantly, including thiazide diuretics and cimetidine. There was no effect of bisoprolol fumarate on prothrombin time in patients on stable doses of warfarin.

Risk of Anaphylactic Reaction:

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

Information for Patients

Patients, especially those with coronary artery disease, should be warned about discontinuing use of bisoprolol fumarate without a physician's supervision. Patients should also be advised to consult a physician if any difficulty in breathing occurs, or if they develop signs or symptoms of congestive heart failure or excessive bradycardia.

Patients subject to spontaneous hypoglycemia, or diabetic patients receiving insulin or oral hypoglycemic agents, should be cautioned that beta-blockers may mask some of the manifestations of hypoglycemia, particularly tachycardia, and bisoprolol fumarate should be used with caution.

Patients should know how they react to this medicine before they operate automobiles and machinery or engage in other tasks requiring alertness.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term studies were conducted with oral bisoprolol fumarate administered in the feed of mice (20 and 24 months) and rats (26 months). No evidence of carcinogenic potential was seen in mice dosed up to 250 mg/kg/day or rats dosed up to 125 mg/kg/day. On a body weight basis, these doses are 625 and 312 times, respectively, the maximum recommended human dose (MRHD) of 20 mg, (or 0.4 mg/kg/day based on a 50 kg individual); on a body surface area basis, these doses are 59 times (mice) and 64 times (rats) the MRHD. The mutagenic potential of bisoprolol fumarate was evaluated in the microbial mutagenicity (Ames) test, the point mutation and chromosome aberration assays in Chinese hamster V79 cells, the unscheduled DNA synthesis test, the micronucleus test in mice, and the cytogenetics assay in rats. There was no evidence of mutagenic potential in these *in vitro* and *in vivo* assays.

Reproduction studies in rats did not show any impairment of fertility at doses up to 150 mg/kg/day of bisoprolol fumarate, or 375 and 77 times the MRHD on the basis of body weight and body surface area, respectively.

Nursing Mothers

Small amounts of bisoprolol fumarate (< 2% of the dose) have been detected in the milk of lactating rats. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk caution should be exercised when bisoprolol fumarate is administered to nursing women.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

Geriatric Use

Bisoprolol fumarate has been used in elderly patients with hypertension. Response rates and mean decreases in systolic and diastolic blood pressure were similar to the decreases in younger patients in the U.S. clinical studies. Although no dose response study was conducted in elderly patients, there was a tendency for older patients to be maintained on higher doses of bisoprolol fumarate.

Observed reductions in heart rate were slightly greater in the elderly than in the young and tended to increase with increasing dose. In general, no disparity in adverse

experience reports or dropouts for safety reasons was observed between older and younger patients. Dose adjustment based on age is not necessary.

ADVERSE REACTIONS

Safety data are available in more than 30,000 patients or volunteers. Frequency estimates and rates of withdrawal of therapy for adverse events were derived from two U.S. placebo-controlled studies.

In Study A, doses of 5, 10, and 20 mg bisoprolol fumarate were administered for 4 weeks. In Study B, doses of 2.5, 10, and 40 mg of bisoprolol fumarate were administered for 12 weeks. A total of 273 patients were treated with 5-20 mg of bisoprolol fumarate; 132 received placebo.

Withdrawal of therapy for adverse events was 3.3% for patients receiving bisoprolol fumarate and 6.8% for patients on placebo. Withdrawals were less than 1% for either bradycardia or fatigue/lack of energy.

The following table presents adverse experiences, whether or not considered drug related, reported in at least 1% of patients in these studies, for all patients studied in placebo-controlled clinical trials (2.5-40 mg), as well as for a subgroup that was treated with doses within the recommended dosage range (5-20 mg). Of the adverse events listed in the table, bradycardia, diarrhea, asthenia, fatigue, and sinusitis appear to be dose related.

Body System/Adverse Experience	All Adverse Experiences (% ^a)		
	Bisoprolol Fumarate		
	Placebo (n=132) %	5-20 mg (n=273) %	2.5-40 mg (n=404) %
Skin			
increased sweating	1.5	0.7	1.0
Musculoskeletal			
arthralgia	2.3	2.2	2.7
Central Nervous System			
dizziness	3.8	2.9	3.5
headache	11.4	8.8	10.9
hypoesthesia	0.8	1.1	1.5
Autonomic Nervous System			
dry mouth	1.5	0.7	1.3
Heart Rate/Rhythm			
bradycardia	0	0.4	0.5

Psychiatric			
vivid dreams	0	0	0
insomnia	2.3	1.5	2.5
depression	0.8	0	0.2
Gastrointestinal			
diarrhea	1.5	2.6	3.5
nausea	1.5	1.5	2.2
vomiting	0	1.1	1.5
Respiratory			
bronchospasm	0	0	0
cough	4.5	2.6	2.5
dyspnea	0.8	1.1	1.5
pharyngitis	2.3	2.2	2.2
rhinitis	3.0	2.9	4.0
sinusitis	1.5	2.2	2.2
URI	3.8	4.8	5.0
Body as a Whole			
asthenia	0	0.4	1.5
chest pain	0.8	1.1	1.5
fatigue	1.5	6.6	8.2
edema	3.8	3.7	3.0
(peripheral)			

^a percentage of patients with event

The following is a comprehensive list of adverse experiences reported with bisoprolol fumarate in worldwide studies, or in postmarketing experience (in italics):

Central Nervous System

Dizziness, *unsteadiness*, vertigo, *syncope*, headache, paresthesia, hypoesthesia, hyperesthesia, somnolence, *sleep disturbances*, anxiety/restlessness, decreased concentration/memory.

Autonomic Nervous System

Dry mouth.

Cardiovascular

Bradycardia, palpitations and other rhythm disturbances, cold extremities, claudication, hypotension, orthostatic hypotension, chest pain, congestive heart failure, dyspnea on exertion.

Psychiatric

Vivid dreams, insomnia, depression.

Gastrointestinal

Gastric/epigastric/abdominal pain, gastritis, dyspepsia, nausea, vomiting, diarrhea, constipation, peptic ulcer.

Musculoskeletal

Muscle/joint pain, *arthralgia*, back/neck pain, muscle cramps, twitching/tremor.

Skin

Rash, acne, eczema, *psoriasis*, skin irritation, pruritus, flushing, sweating, alopecia, *dermatitis*, *angioedema*, *exfoliative dermatitis*, cutaneous vasculitis.

Special Senses

Visual disturbances, ocular pain/pressure, abnormal lacrimation, tinnitus, *decreased hearing*, earache, taste abnormalities.

Metabolic

Gout.

Respiratory

Asthma/bronchospasm, bronchitis, coughing, dyspnea, pharyngitis, rhinitis, sinusitis, URI.

Genitourinary

Decreased libido/impotence, *Peyronie's disease*, cystitis, renal colic, polyuria.

Hematologic

Purpura.

General

Fatigue, asthenia, chest pain, malaise, edema, weight gain, angioedema.

In addition, a variety of adverse effects have been reported with other beta-adrenergic blocking agents and should be considered potential adverse effects of bisoprolol fumarate.

Central Nervous System

Reversible mental depression progressing to catatonia, hallucinations, an acute reversible syndrome characterized by disorientation to time and place, emotional lability, slightly clouded sensorium.

Allergic

Fever, combined with aching and sore throat, laryngospasm, respiratory distress.

Hematologic

Agranulocytosis, thrombocytopenia, thrombocytopenic purpura.

Gastrointestinal

Mesenteric arterial thrombosis, ischemic colitis.

Miscellaneous

The oculomucocutaneous syndrome associated with the beta-blocker practolol has not been reported with bisoprolol fumarate during investigational use or extensive foreign marketing experience.

LABORATORY ABNORMALITIES

In clinical trials, the most frequently reported laboratory change was an increase in serum triglycerides, but this was not a consistent finding.

Sporadic liver test abnormalities have been reported. In the U.S. controlled trials experience with bisoprolol fumarate treatment for 4-12 weeks, the incidence of concomitant elevations in SGOT and SGPT from 1 to 2 times normal was 3.9%, compared to 2.5% for placebo. No patient had concomitant elevations greater than twice normal.

In the long-term, uncontrolled experience with bisoprolol fumarate treatment for 6-18 months, the incidence of one or more concomitant elevations in SGOT and SGPT from 1 to 2 times normal was 6.2%. The incidence of multiple occurrences was 1.9%. For concomitant elevations in SGOT and SGPT of greater than twice normal, the incidence was 1.5%. The incidence of multiple occurrences was 0.3%. In many cases these elevations were attributed to underlying disorders, or resolved during continued treatment with bisoprolol fumarate.

Other laboratory changes included small increases in uric acid, creatinine, BUN, serum potassium, glucose, and phosphorus and decreases in WBC and platelets. These were generally not of clinical importance and rarely resulted in discontinuation of bisoprolol fumarate.

As with other beta-blockers, ANA conversions have also been reported on bisoprolol fumarate. About 15% of patients in long-term studies converted to a positive titer, although about one-third of these patients subsequently reconverted to a negative titer while on continued therapy.

OVERDOSAGE

The most common signs expected with overdosage of a beta-blocker are bradycardia, hypotension, congestive heart failure, bronchospasm, and hypoglycemia. To date, a few cases of overdose (maximum: 2000 mg) with bisoprolol fumarate have been reported. Bradycardia and/or hypotension were noted. Sympathomimetic agents were given in some cases, and all patients recovered.

In general, if overdose occurs, bisoprolol fumarate therapy should be stopped and supportive and symptomatic treatment should be provided. Limited data suggest that bisoprolol fumarate is not dialyzable. Based on the expected pharmacologic actions and recommendations for other beta-blockers, the following general measures should be considered when clinically warranted:

Bradycardia

Administer IV atropine. If the response is inadequate, isoproterenol or another agent with positive chronotropic properties may be given cautiously. Under some circumstances, transvenous pacemaker insertion may be necessary.

Hypotension

IV fluids and vasopressors should be administered. Intravenous glucagon may be useful.

Heart Block (second or third degree)

Patients should be carefully monitored and treated with isoproterenol infusion or transvenous cardiac pacemaker insertion, as appropriate.

Congestive Heart Failure

Initiate conventional therapy (ie, digitalis, diuretics, inotropic agents, vasodilating agents).

Bronchospasm

Administer bronchodilator therapy such as isoproterenol and/or aminophylline.

Hypoglycemia

Administer IV glucose.

DOSAGE AND ADMINISTRATION

The dose of bisoprolol fumarate tablets must be individualized to the needs of the patient. The usual starting dose is 5 mg once daily. In some patients, 2.5 mg may be an appropriate starting dose (see **Bronchospastic Disease** in **WARNINGS**). If the antihypertensive effect of 5 mg is inadequate, the dose may be increased to 10 mg and then, if necessary, to 20 mg once daily.

Patients with Renal or Hepatic Impairment

In patients with hepatic impairment (hepatitis or cirrhosis) or renal dysfunction (creatinine clearance less than 40 mL/min), the initial daily dose should be 2.5 mg and caution should be used in dose-titration. Since limited data suggest that bisoprolol fumarate is not dialyzable, drug replacement is not necessary in patients undergoing dialysis.

Geriatric Patients

It is not necessary to adjust the dose in the elderly, unless there is also significant renal or hepatic dysfunction (see above and **Geriatric Use** in **PRECAUTIONS**).

Pediatric Patients

There is no pediatric experience with bisoprolol fumarate tablets.

HOW SUPPLIED

NDC: 71335-9755-3: 180 FILM COATED TABLETs in a BOTTLE

NDC: 71335-9755-1: 30 FILM COATED TABLETs in a BOTTLE

NDC: 71335-9755-2: 120 FILM COATED TABLETs in a BOTTLE

NDC: 71335-9755-4: 90 FILM COATED TABLETs in a BOTTLE

Bisoprolol Fumarate 10 mg Tablet



GTIN 00371335975517
Lot 208620
Exp 7/25/2025
SN 0123456789

Each tablet contains: Bisoprolol Fumarate,
USP 10 mg

Keep this and all drugs out of the reach of
children.

Store at 20° to 25° C (68° to 77° F); excursions
permitted to 15° to 30° C (59° to 86° F) (see
USP controlled Room Temperature).

Dispense in a tight, light-resistant container
with a child-resistant closure.

Protect from moisture.

NDC 71335-9755-1

Bisoprolol Fumarate Tablets, USP

10 mg



Repackaged by:
Bryant Ranch Prepack, Inc.
Burbank, CA 91504 USA

Rx only
30 Tablets
Manufactured by:
Rubicon Research
Private Limited



BISOPROLOL FUMARATE

bisoprolol fumarate tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-9755(NDC:72888- 093)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
BISOPROLOL FUMARATE (UNII: UR59KN573L) (BISOPROLOL - UNII:Y41JS2NL6U)	BISOPROLOL FUMARATE	10 mg

Inactive Ingredients

Ingredient Name	Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
STARCH, CORN (UNII: O8232NY3SJ)	
ANHYDROUS DIBASIC CALCIUM PHOSPHATE (UNII: L11K75P92J)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
MAGNESIUM STEARATE (UNII: 70097M6I3O)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

Product Characteristics

Color	white	Score	no score
Shape	ROUND	Size	7mm
Flavor		Imprint Code	UpArrowhead;F2
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-9755-3	180 in 1 BOTTLE; Type 0: Not a Combination Product	07/25/2023	
2	NDC:71335-9755-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	07/25/2023	
3	NDC:71335-9755-2	120 in 1 BOTTLE; Type 0: Not a Combination Product	07/25/2023	
4	NDC:71335-9755-4	90 in 1 BOTTLE; Type 0: Not a Combination Product	07/25/2023	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA075643	11/16/2000	

Labeler - Bryant Ranch Prepack (171714327)**Registrant** - Bryant Ranch Prepack (171714327)**Establishment**

Name	Address	ID/FEI	Business Operations
Bryant Ranch Prepack		171714327	REPACK(71335-9755) , RELABEL(71335-9755)

Revised: 7/2023

Bryant Ranch Prepack