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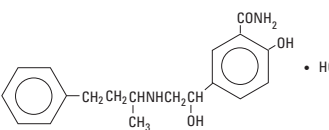
Labeletalol Hydrochloride Injection, USP

Rx only



DESCRIPTION

Labeletalol hydrochloride is an adrenergic receptor blocking agent that has both selective alpha₁- and nonselective beta-adrenergic receptor blocking actions in a single substance. Labeletalol HCl is a racemate, chemically designated as (-)-1-hydroxy-2-(1-methyl-3-phenylpropyl) amino) ethyl)-sallylamide monohydrochloride, and has the following structural formula:



Labeletalol hydrochloride has the molecular formula C₂₁H₂₉N₂O₃ · HCl and a molecular weight of 364.87. It has two asymmetric centers and therefore exists as a molecular complex of two diastereoisomeric pairs. Dilevalol, the R,R stereoisomer, makes up 25% of racemic labeletalol. Labeletalol hydrochloride is a white or off-white crystalline powder, soluble in water. Labeletalol hydrochloride injection is a clear, colorless to light yellow aqueous sterile isotonic solution for intravenous injection. It has a pH range of 3.0 to 4.5. Each mL contains 5 mg labeletalol hydrochloride, USP, 45 mg anhydrous dextrose, 0.1 mg edetate disodium; 0.8 mg methylparaben and 0.1 mg propylparaben as preservatives; citric acid monohydrate and sodium hydroxide, as necessary, to bring the solution into the pH range.

CLINICAL PHARMACOLOGY

Labeletalol combines both selective, competitive alpha₁-adrenergic blocking and nonselective, competitive beta-adrenergic blocking activity in a single substance. In man, the ratios of alpha- to beta-blockade have been estimated to be approximately 1:3 and 1:7 following oral and intravenous administration, respectively. Beta₂-agonist activity has been demonstrated in animals with minimal beta₂-agonist (ISA) activity detected. In animals, at doses greater than those required for alpha- or beta-adrenergic blockade, a membrane-stabilizing effect has been demonstrated.

Pharmacodynamics

The capacity of labeletalol to block alpha₁-receptors in man has been demonstrated by attenuation of the pressor effect of phenylephrine and by a significant reduction of the pressor response caused by immersing the hand in ice-cold water ("cold-pressor test"). Labeletalol's beta₁-receptor blockade in man was demonstrated by a small decrease in the resting heart rate, attenuation of tachycardia produced by isoproterenol or exercise, and by attenuation of the reflex tachycardia to the hypertension produced by amyl nitrite. Beta₁-receptor blockade was demonstrated by inhibition of the isoproterenol-induced fall in diastolic blood pressure. Both the alpha- and beta-blocking actions of orally administered labeletalol contribute to a decrease in blood pressure in hypertensive patients. Labeletalol consistently, in dose-related fashion, blunted increases in exercise-induced blood pressure and heart rate, and in their double product. The pulmonary circulation during exercise was not affected by labeletalol dosing.

Single oral doses of labeletalol administered in patients with coronary artery disease had no significant effect on sinus rate, intraventricular conduction, or QRS duration. The atrioventricular (AV) conduction time was modestly prolonged in 2 of 7 patients. In another study, intravenous labeletalol slightly prolonged AV nodal conduction time and atrial effective refractory period with only small changes in heart rate. The effects on AV nodal refractoriness were inconsistent. Labeletalol produces dose-related falls in blood pressure without reflex tachycardia and without significant reduction in heart rate, presumably through a mixture of its alpha-blocking and beta-blocking effects. Hemodynamic effects are variable with small nonsignificant changes in cardiac output seen in some studies but not others, and small decreases in total peripheral resistance. Elevated plasma renins are reduced.

Doses of labeletalol that controlled hypertension did not affect renal function in mild to severe hypertensive patients who have normal renal function.

Due to the alpha₁-receptor blocking activity of labeletalol, blood pressure is lowered more in the standing than in the supine position, and symptoms of postural hypertension can occur. During dosing with intravenous labeletalol, the contribution of the postural component should be considered when positioning patients for treatment, and patients should not be allowed to move to an erect position unmonitored until their ability to do so is established.

In a clinical pharmacologic study in severe hypertensives, an initial 0.25 mg/kg injection of labeletalol, administered to patients in the supine position, decreased blood pressure by an average of 17/7 mmHg. Additional injections of 0.5 mg/kg at 15 minute intervals up to a total cumulative dose of 1.75 mg/kg of labeletalol caused further dose-related decreases in blood pressure. Some patients required cumulative doses of up to 3.25 mg/kg. The maximal effect of each dose level occurred within 5 minutes. Following discontinuation of intravenous treatment with labeletalol, the blood pressure rose gradually and progressively approaching pretreatment baseline values within an average of 16 to 18 hours in the majority of patients.

Similar results were obtained in the treatment of patients with severe hypertension requiring urgent blood pressure reduction with an initial dose of 20 mg (which corresponds to 0.25 mg/kg for an 80 kg patient) followed by additional doses of either 40 or 80 mg at 10 minute intervals to achieve the desired effect or up to a cumulative dose of 300 mg. Labeletalol administered as a continuous intravenous infusion, with a mean dose of 136 mg (27 to 300 mg) over a period of 2 to 3 hours (mean of 2 hours and 39 minutes) lowered the blood pressure by an average of 60/35 mmHg.

Exacerbation of angina and, in some cases, myocardial infarction and ventricular dysrhythmias have been reported after abrupt discontinuation of therapy with beta-adrenergic blocking agents in patients with coronary artery disease. Abrupt withdrawal of these agents in patients without coronary artery disease has resulted in transient symptoms, including tremulousness, sweating, palpitation, headache and malaise. Several mechanisms have been proposed to explain these phenomena, among them increased sensitivity to catecholamines because of increased numbers of beta-receptors.

Although beta-adrenergic receptor blockade is useful in the treatment of angina and hypertension, there are also situations in which sympathetic stimulation is vital. For example, in patients with severely damaged hearts, adequate ventricular function may depend on sympathetic drive. Beta-adrenergic blockade may worsen AV block by preventing the necessary facilitating effects of sympathetic activity on conduction. Beta₁-adrenergic blockade results in passive bronchial constriction by interfering with endogenous adrenergic bronchodilator activity in patients subject to bronchospasm and may also interfere with exogenous bronchodilators in such patients.

Pharmacokinetics and Metabolism

Following intravenous infusion, the elimination half-life is about 5.5 hours and the total body clearance is approximately 33 mL/min/kg. The plasma half-life of labeletalol following oral administration is about 6 to 8 hours. In patients with decreased hepatic or renal function, the elimination half-life of labeletalol is not altered; however, the relative bioavailability in hepatically impaired patients is increased due to decreased "first-pass" metabolism.

The metabolism of labeletalol is mainly through conjugation to glucuronide metabolites. These metabolites are present in plasma and are excreted in the urine and, via the bile, into the feces. Approximately 55% to 60% of a dose appears in the urine as conjugates or unchanged labeletalol within the first 24 hours of dosing.

Labeletalol has been shown to cross the placental barrier in humans. Only negligible amounts of the drug crossed the blood-brain barrier in animal studies. Labeletalol is approximately 50% protein bound. Neither hemodialysis nor peritoneal dialysis removes a significant amount of labeletalol from the general circulation (<1%).

INDICATIONS AND USAGE

Labeletalol HCl injection is indicated for control of blood pressure in severe hypertension.

CONTRAINDICATIONS

Labeletalol HCl injection is contraindicated in bronchial asthma, overt cardiac failure, greater than first degree heart block, cardiogenic shock, severe bradycardia, other conditions associated with severe and prolonged hypotension, and in patients with a history of hypersensitivity to any component of the product (see **WARNINGS**).

Beta-blockers, even those with apparent cardioselectivity, should not be used in patients with a history of obstructive airway disease, including asthma.

WARNINGS

Hepatic Injury

Severe hepatocellular injury, confirmed by rechallenge in at least one case, occurs rarely with labeletalol therapy. The hepatic injury is usually reversible, but hepatic necrosis and death have been reported. Injury has occurred after both short- and long-term treatment and may be progressive despite minimal symptomatology. Similar hepatic events have been reported with a related compound, dilevalol HCl, including two deaths. Dilevalol HCl is one of the four isomers of labeletalol. Thus, for patients taking labeletalol, periodic hepatic laboratory tests would be appropriate. Laboratory testing should also be done at the very first symptom or sign of liver dysfunction (e.g., pruritus, dark urine, persistent anorexia, jaundice, right upper quadrant tenderness, or unexplained "flu-like" symptoms). If the patient has jaundice or laboratory evidence of liver injury, labeletalol should be stopped and not restarted.

Cardiac Failure

Sympathetic stimulation is a vital component supporting circulatory function in congestive heart failure. Beta-blockade carries a potential hazard of further depressing myocardial contractility and precipitating more severe failure. Although beta-blockers should be avoided in overt congestive heart failure, if necessary, labeletalol can be used with caution in patients with a history of heart failure, who are well compensated. Congestive heart failure has been observed in patients receiving labeletalol. Labeletalol does not abolish the inotropic action of digitalis on heart muscle.

In Patients without a History of Cardiac Failure

In patients with latent cardiac insufficiency, continued depression of the myocardium with beta-blocking agents over a period of days can lead, in some cases, to cardiac failure. At the first sign or symptom of impending cardiac failure, patients should be fully digitalized and/or be given a diuretic, and the response observed closely. If cardiac failure continues, despite adequate digitalization and diuretic, labeletalol therapy should be withdrawn (gradually if possible).

Ischemic Heart Disease

Angina pectoris has not been reported upon labeletalol discontinuation. However, following abrupt cessation of therapy with some beta-blocking agents in patients with coronary artery disease, exacerbations of angina pectoris and, in some cases, myocardial infarction have been reported. Therefore, such patients should be cautioned against interruption of therapy without the physician's advice. Even in the absence of overt angina pectoris, when discontinuation of labeletalol is planned, the patient should be carefully observed and should be advised to limit physical activity. If angina markedly worsens or acute coronary insufficiency develops, labeletalol administration should be reinstated promptly, at least temporarily, and other measures appropriate for the management of unstable angina should be taken.

Nonallergic Bronchospasm (e.g., chronic bronchitis and emphysema)

Since labeletalol injection at the usual intravenous therapeutic doses has not been studied in patients with nonallergic bronchospastic disease, it should not be used in such patients.

Pheochromocytoma

Intravenous labeletalol has been shown to be effective in lowering the blood pressure and relieving symptoms in patients with pheochromocytoma; higher than usual doses may be required. However, paradoxical hypertensive responses have been reported in a few patients with this tumor; therefore, use caution when administering labeletalol to patients with pheochromocytoma.

Diabetes Mellitus and Hypoglycemia

Beta-adrenergic blockade may prevent the appearance of premonitory signs and symptoms (e.g., tachycardia) of acute hypoglycemia. This is especially important with labile diabetics. Beta-blockade also reduces the release of insulin in response to hyperglycemia; it may therefore be necessary to adjust the dose of antidiabetic drugs.

Major Surgery

Do not routinely withdraw chronic beta blocker therapy prior to surgery. The effect of labeletalol's alpha adrenergic activity has not been evaluated in this setting.

Several deaths have occurred when labeletalol injection was used during surgery (including when used in a synergism between labeletalol and halothane anesthesia has been shown) (see **PRECAUTIONS - Drug Interactions**).

Rapid Decreases of Blood Pressure

Caution must be observed when reducing severely elevated blood pressure. A number of adverse reactions, including cerebral infarction, optic nerve infarction, angina, and ischemic changes in the electrocardiogram, have been reported with other agents when severely elevated blood pressure was reduced over time courses of several hours to as long as 1 or 2 days. The desired blood pressure lowering should therefore be achieved over as long a period of time as is compatible with the patient's status.

PRECAUTIONS

General
 Labeletalol injection should be used with caution in patients with impaired hepatic function since metabolism of the drug may be diminished.

Hypotension

Symptomatic postural hypotension (incidence 58%) is likely to occur if patients are tilted or allowed to assume the upright position within 3 hours of receiving labeletalol injection. Therefore, the patient's ability to tolerate an upright position should be established before permitting any ambulation.

Intraoperative Floppy Iris Syndrome (IFIS) has been observed during cataract surgery in some patients treated with alpha-1 blockers (labeletalol is an alpha/beta blocker). This variant of small pupil syndrome is characterized by the combination of a flaccid iris that billows in response to intraoperative irrigation currents, progressive intraoperative miosis despite preoperative dilation with standard mydriatic drugs, and potential prolapse of the iris toward the phacoemulsification incisions. The patient's ophthalmologist should be prepared for possible modifications to the surgical technique, such as the utilization of iris hooks, iris dilator rings, or viscoelastic substances. There does not appear to be a benefit of stopping alpha-1 blocker therapy prior to cataract surgery.

Following Coronary Artery Bypass Surgery

In one uncontrolled study, patients with low cardiac indices and elevated systemic vascular resistance following intravenous labeletalol experienced significant declines in cardiac output with little change in systemic vascular resistance. One of these patients developed hypotension following labeletalol treatment. Therefore, use of labeletalol should be avoided in such patients.

High-Dose Labeletalol

Administration of up to 3 g/d as an infusion for up to 2 to 3 days has been anecdotally reported; several patients experienced hypotension or bradycardia.

Jaundice or Hepatic Dysfunction (see **WARNINGS**).

Information for Patients

The following information is intended to aid in the safe and effective use of this medication. It is not a disclosure of all possible adverse or intended effects. During and immediately following (for up to 3 hours) labeletalol injection, the patient should remain supine. Subsequently, the patient should be advised on how to proceed gradually to become ambulatory, and should be observed at the time of first ambulation.

When the patient is started on labeletalol hydrochloride tablets following adequate control of blood pressure with labeletalol hydrochloride injection, appropriate directions for titration of dosage should be provided (see **DOSEAGE AND ADMINISTRATION**).

As with all drugs with beta-blocking activity, certain advice to patients being treated with labeletalol is warranted. While no evidence of abrupt withdrawal phenomenon (exacerbation of angina pectoris) has been reported with labeletalol, dosing with labeletalol tablets should not be interrupted or discontinued without a physician's advice. Patients being treated with labeletalol tablets should consult a physician at any signs or symptoms of impending cardiac failure or hepatic dysfunction (see **WARNINGS**). Also, transient scalp tingling may occur, usually when treatment with labeletalol tablets is initiated (see **ADVERSE REACTIONS**).

Laboratory Tests

Routine laboratory tests are ordinarily not required before or after intravenous labeletalol. In patients with concomitant illnesses, such as impaired renal function, appropriate tests should be done to monitor these conditions.

Drug Interactions

Since labeletalol injection may be administered to patients already being treated with other medications, including other antihypertensive agents, careful monitoring of these patients is necessary to detect and treat promptly any undesired effect from concomitant administration.

In one survey, 2.3% of patients taking labeletalol orally in combination with tricyclic antidepressants experienced tremor or asthenia. This is especially important with labile diabetics. Beta-blockade also reduces the release of insulin in response to hyperglycemia; it may therefore be necessary to adjust the dose of antidiabetic drugs.

Drugs possessing beta-blocking properties can blunt the bronchodilator effect of beta-receptor agonist drugs in patients with bronchospasm; therefore, doses greater than the normal anasthsmatic dose of beta-agonist bronchodilator drugs may be required.

Cimetidine has been shown to increase the bioavailability of labeletalol administered orally. Since this could be explained either by enhanced absorption or by an alteration of hepatic metabolism of labeletalol, special care should be used in establishing the dose required for blood pressure control in such patients.

Synergism has been shown between halothane anesthesia and intravenously administered labeletalol. During halothane anesthesia using labeletalol in association with halothane, high concentrations (3% or above) of halothane should not be used because the degree of hypotension will be increased and because of the possibility of a large reduction in cardiac output and an increase in central venous pressures. The anesthesiologist should be informed when a patient is receiving labeletalol. Labeletalol blunts the reflex tachycardia produced by nitroglycerin without preventing its hypotensive effect. If labeletalol is used with nitroglycerin in patients with angina pectoris, additional antihypertensive effects may occur.

Care should be taken if labeletalol is used concomitantly with calcium antagonists of the verapamil type. When drug products that are alkaline, such as furosemide, have been administered in combination with labeletalol, a white precipitate has been noted. Therefore, these drugs should not be administered in the same infusion line.

Risk of Anaphylactic Reaction

While taking beta-blockers, patients with a history of severe anaphylactic reactions 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 reaction.

Drug/Laboratory Test Interactions

The presence of labeletalol metabolites in the urine may result in falsely elevated levels of urinary catecholamines, metanephrine, normetanephrine, and vanillylmandelic acid (VMA) when measured by fluorimetric or photometric methods. In screening patients suspected of having a pheochromocytoma and being treated with labeletalol, a specific method, such as a high-performance liquid chromatographic assay with solid phase extraction (e.g., *J Chromatogr*, 385:241, 1987) should be employed in determining levels of catecholamines.

Labeletalol has also been reported to produce a false-positive test for amphetamine when screening urine for the presence of drugs using the commercially available assay methods Tox-Lab AP (thin-layer chromatographic assay) and Emil-i.a.u.# (radioenzymatic assay). When patients being treated with labeletalol have a positive urine test for amphetamine using these techniques, confirmation should be made by using more specific methods, such as a gas chromatographic-mass spectrometer technique.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term oral dosing studies with labeletalol for 18 months in mice and for 2 years in rats showed no evidence of carcinogenesis. Studies with labeletalol, using dominant lethal assays in rats and mice, and exposing microorganisms according to modified Ames tests, showed no evidence of mutagenesis.

Pregnancy

Teratogenic Effects

Teratogenic studies have been performed with labeletalol in rats and rabbits at oral doses up to approximately 6 and 4 times the maximum recommended human dose (MRHD), respectively. No reproducible evidence of fetal malformations was observed. Increased fetal resorptions were seen in both species at doses approximating the MRHD. A teratology study performed with labeletalol in rabbits at intravenous doses up to 1.7 times the MRHD revealed no evidence of drug-related harm to the fetus. There are no adequate and well-controlled studies in pregnant women. Labeletalol should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nonteratogenic Effects

Hypotension, bradycardia, hypoglycemia, and respiratory depression have been reported in infants of mothers who were treated with labeletalol for hypertension during pregnancy. Oral administration of labeletalol to rats during late gestation through weaning at doses of 2 to 4 times the MRHD caused a decrease in neonatal survival.

Labor and Delivery

Labeletalol given to pregnant women with hypertension did not appear to affect the usual course of labor and delivery.

Nursing Mothers

Small amounts of labeletalol (approximately 0.004% of the maternal dose) are excreted in human milk. Caution should be exercised when labeletalol injection is administered to a nursing woman.

Pediatric Use

Safety and effectiveness in children have not been established.

ADVERSE REACTIONS

Labeletalol injection is usually well tolerated. Most adverse effects have been mild and transient and in controlled trials involving 92 patients did not require labeletalol withdrawal. Symptomatic postural hypotension (incidence 58%) is likely to occur if patients are tilted or allowed to assume the upright position within 3 hours of receiving labeletalol injection. Moderate hypotension occurred in 1 of 100 patients while supine. Increased sweating was noted in 4 of 100 patients, and flushing occurred in 1 of 100 patients.

The following also were reported with labeletalol injection with the incidence per 100 patients as noted:

Cardiovascular System: Ventricular arrhythmia in 1.

Central and Peripheral Nervous Systems: Dizziness in 9; tingling of the scalp/skin 7; hypoaesthesia (numbness) and vertigo, 1 each.

Gastrointestinal System: Nausea in 13; vomiting 4; dyspepsia and taste distortion, 1 each.

Metabolic Disorders: Transient increases in blood urea nitrogen and serum creatinine levels occurred in 8 of 100 patients; these were associated with drops in blood pressure, generally in patients with prior renal insufficiency.

Psychiatric Disorders: Somnolence/yawning in 3.

Respiratory System: Wheezing in 1.

Skin: Pruritus in 1.

The incidence of adverse reactions depends upon the dose of labeletalol. The largest experience is with oral labeletalol. Certain of the side effects increased with increasing oral dose as shown in the table below which depicts the entire U.S. therapeutic trials data base for adverse reactions that are clearly or possibly dose related.

Labeletalol Daily Dose (mg)	200	300	400	600	800	900	1200	1600	2400
Number of Patients	522	181	606	608	503	117	411	242	175
Dizziness (%)	2	3	3	3	5	1	9	13	16
Fatigue	2	1	4	4	5	3	7	6	10
Nausea	<1	0	1	2	4	0	7	11	19
Vomiting	0	0	<1	<1	<1	0	1	2	3
Dyspepsia	1	0	2	1	1	0	2	2	4
Paresthesias	2	0	2	2	1	1	2	5	5
Nasal Stuffiness	1	1	2	2	2	2	4	5	6
Ejaculation Failure	0	2	1	2	3	0	4	3	5
Impotence	1	1	1	1	2	4	3	4	3
Edema	1	0	1	1	1	0	1	2	2

In addition, a number of other less common adverse events have been reported:

Cardiovascular: Hypotension, and rarely, syncope, bradycardia, heart block.

Liver and Biliary System: Hepatic necrosis, hepatitis, cholestatic jaundice, elevated liver function tests.

Hypersensitivity: Rare reports of hypersensitivity (e.g., rash, urticaria, pruritus, angioedema, dyspnea) and anaphylactoid reactions have been reported.

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

Clinical Laboratory Tests

Among patients dosed with labeletalol tablets, there have been reversible increases of serum transaminases in 4% of patients tested, and more rarely, reversible increases in blood urea.

OVERDOSAGE

Overdosage with labeletalol injection causes excessive hypotension that is posture sensitive, and sometimes, excessive bradycardia. Patients should be placed supine and their legs raised if necessary to improve the blood supply to the brain. If overdosage with labeletalol follows oral ingestion, gastric lavage or pharmacologically induced emesis (using syrup of ipecac) may be useful for removal of the drug shortly after ingestion. The following additional measures should be employed if necessary: **Excessive bradycardia**-administer atropine or epinephrine. **Cardiac failure**-administer a digitalis glycoside and a diuretic. Dopamine or dobutamine may also be useful. **Hypotension**-administer vasopressors, e.g., norepinephrine. There is pharmacological evidence that norepinephrine may be the drug of choice. **Bronchospasm**-administer epinephrine and/or an aerosolized beta₂-agonist. **Seizures**-administer diazepam.

In severe beta-blocker overdose resulting in hypotension and/or bradycardia, gulfusion has been shown to be effective when administered in large doses (5 to 10 mg rapidly over 30 seconds, followed by continuous infusion of 5 mg/hr that can be reduced as the patient improves).

Neither hemodialysis nor peritoneal dialysis removes a significant amount of labeletalol from the general circulation (<1%).

The oral LD₅₀ value of labeletalol in the mouse is approximately 600 mg/kg and in the rat is greater than 2 g/kg. The intravenous LD₅₀ in these species is 50 to 60 mg/kg.

DOSEAGE AND ADMINISTRATION

Labeletalol hydrochloride injection is intended for intravenous use in hospitalized patients. DOSEAGE MUST BE INDIVIDUALIZED depending upon the severity of hypertension and the response of the patient during dosing.

Patients should always be kept in a supine position during the period of intravenous drug administration. A substantial fall in blood pressure on standing should be expected in these patients. The patient's ability to tolerate an upright position should be established before permitting any ambulation, such as using toilet facilities.

Either of two methods of administration of labeletalol hydrochloride injection may be used: a) repeated intravenous injections, b) slow continuous infusion.

Repeated Intravenous Injection

Initially, labeletalol hydrochloride injection should be given in a dose of 20 mg labeletalol HCl (which corresponds to 0.25 mg/kg for an 80 kg patient) by slow intravenous injection over a 2-minute period. Immediately before the injection and at 5 and 10 minutes after injection, supine blood pressure should be measured to evaluate response. Additional injections of 40 mg or 80 mg can be given at 10 minute intervals until a desired supine blood pressure is achieved or a total of 300 mg labeletalol HCl has been injected. The maximum effect usually occurs within 5 minutes of each injection.

Slow Continuous Infusion

Labeletalol hydrochloride injection is prepared for continuous intravenous infusion by diluting the drug with commonly used intravenous fluids (see below). Examples of methods of preparing the infusion solution are:

Labeletalol hydrochloride injection 200 mg is added to 160 mL of a commonly used intravenous fluid such that the resultant 200 mL of solution contains 200 mg of labeletalol hydrochloride, 1 mg/mL. The diluted solution should be administered at a rate of 2 mL/min to deliver 2 mg/min.