AMLODIPINE BESYLATE- amlodipine besylate tablet Lupin Pharmaceuticals, Inc. HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use AMLODIPINE BESYLATE TABLETS safely and effectively. See full prescribing information for AMLODIPINE BESYLATE TABLETS. **AMLODIPINE BESYLATE tablets, for oral administration** Initial U.S. Approval: 1992 ------INDICATIONS AND USAGE Amlodipine besylate tablets are calcium channel blocker and may be used alone or in combination with other antihypertensive and antianginal agents for the treatment of: Hypertension (1.1) o Amlodipine besylate tablets are indicated for the treatment of hypertension, to lower blood pressure. Lowering blood pressure reduces the risk of fatal and nonfatal cardiovascular events, primarily strokes and myocardial infarctions. Coronary Artery Disease (1.2) o Chronic Stable Angina o Vasospastic Angina (Prinzmetal's or Variant Angina) o Angiographically Documented Coronary Artery Disease in patients without heart failure or an ejection fraction < 40% ------ DOSAGE AND ADMINISTRATION -----• Adult recommended starting dose: 5 mg once daily with maximum dose 10 mg once daily. (2.1) o Small, fragile, or elderly patients, or patients with hepatic insufficiency may be started on 2.5 mg once daily. (2.1) • Pediatric starting dose: 2.5 mg to 5 mg once daily. (2.2) **Important Limitation**: Doses in excess of 5 mg daily have not been studied in pediatric patients. (2.2) ----- DOSAGE FORMS AND STRENGTHS • Tablets: 2.5 mg, 5 mg, and 10 mg (3) ------ CONTRAINDICATIONS ------ Known sensitivity to amlodipine (4) ------WARNINGS AND PRECAUTIONS ------• Symptomatic hypotension is possible, particularly in patients with severe aortic stenosis. However, acute hypotension is unlikely. (5.1) Worsening angina and acute myocardial infarction can develop after starting or increasing the dose of amlodipine, particularly in patients with severe obstructive coronary artery disease. (5.2) • Titrate slowly in patients with severe hepatic impairment. (5.3) ------ ADVERSE REACTIONS ------Most common adverse reaction to amlodipine is edema which occurred in a dose related manner. Other adverse experiences not dose related but reported with an incidence >1.0% are fatigue, nausea, abdominal pain, and somnolence, (6) To report SUSPECTED ADVERSE REACTIONS, contact Lupin Pharmaceuticals, Inc. at 1-800-399-2561 or www.lupinpharmaceuticals.com or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. ------ DRUG INTERACTIONS ------

------USE IN SPECIFIC POPULATIONS ------

Pediatric: Effect on patients less than 6 years old is not known. (8.4)
Geriatric: Start dosing at the low end of the dose range. (8.5)

• Do not exceed doses greater than 20 mg daily of simvastatin. (7.2)

• Genatic. Start dosing at the low end of the dose range.

See 17 for FDA-approved patient labeling.

Revised: 5/2025

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1 INDICATIONS AND USAGE

1.1 Hypertension

Amlodipine besylate tablets are indicated for the treatment of hypertension, to lower blood pressure. Lowering blood pressure reduces the risk of fatal and nonfatal cardiovascular events, primarily strokes and myocardial infarctions. These benefits have been seen in controlled trials of antihypertensive drugs from a wide variety of pharmacologic classes including amlodipine besylate.

Control of high blood pressure should be part of comprehensive cardiovascular risk management, including, as appropriate, lipid control, diabetes management, antithrombotic therapy, smoking cessation, exercise, and limited sodium intake. Many patients will require more than one drug to achieve blood pressure goals. For specific advice on goals and management, see published guidelines, such as those of the National High Blood Pressure Education Program's Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (JNC).

Numerous antihypertensive drugs, from a variety of pharmacologic classes and with different mechanisms of action, have been shown in randomized controlled trials to reduce cardiovascular morbidity and mortality, and it can be concluded that it is blood pressure reduction, and not some other pharmacologic property of the drugs, that is largely responsible for those benefits. The largest and most consistent cardiovascular outcome benefit has been a reduction in the risk of stroke, but reductions in myocardial infarction and cardiovascular mortality also have been seen regularly.

Elevated systolic or diastolic pressure causes increased cardiovascular risk, and the absolute risk increase per mmHg is greater at higher blood pressures, so that even modest reductions of severe hypertension can provide substantial benefit. Relative risk reduction from blood pressure reduction is similar across populations with varying absolute risk, so the absolute benefit is greater in patients who are at higher risk independent of their hypertension (for example, patients with diabetes or hyperlipidemia), and such patients would be expected to benefit from more aggressive treatment to a lower blood pressure goal.

Some antihypertensive drugs have smaller blood pressure effects (as monotherapy) in black patients, and many antihypertensive drugs have additional approved indications and effects (e.g., on angina, heart failure, or diabetic kidney disease). These considerations may guide selection of therapy.

Amlodipine besylate tablets may be used alone or in combination with other antihypertensive agents.

1.2 Coronary Artery Disease (CAD)

Chronic Stable Angina

Amlodipine besylate tablets are indicated for the symptomatic treatment of chronic stable angina. Amlodipine besylate tablets may be used alone or in combination with other antianginal agents.

Vasospastic Angina (Prinzmetal's or Variant Angina)

Amlodipine besylate tablets are indicated for the treatment of confirmed or suspected

vasospastic angina. Amlodipine besylate tablets may be used as monotherapy or in combination with other antianginal agents.

Angiographically Documented CAD

In patients with recently documented CAD by angiography and without heart failure or an ejection fraction <40%, amlodipine besylate tablets are indicated to reduce the risk of hospitalization for angina and to reduce the risk of a coronary revascularization procedure.

2 DOSAGE AND ADMINISTRATION

2.1 Adults

The usual initial antihypertensive oral dose of amlodipine besylate tablet is 5 mg once daily and the maximum dose is 10 mg once daily.

Small, fragile, or elderly patients, or patients with hepatic insufficiency may be started on 2.5 mg once daily and this dose may be used when adding amlodipine besylate tablet to other antihypertensive therapy.

Adjust dosage according to blood pressure goals. In general, wait 7 to 14 days between titration steps. Titrate more rapidly, however, if clinically warranted, provided the patient is assessed frequently.

Angina

The recommended dose for chronic stable or vasospastic angina is 5 to 10 mg, with the lower dose suggested in the elderly and in patients with hepatic insufficiency. Most patients will require 10 mg for adequate effect.

Coronary artery disease

The recommended dose range for patients with coronary artery disease is 5 to 10 mg once daily. In clinical studies, the majority of patients required 10 mg [see CLINICAL STUDIES (14.4)].

2.2 Children

The effective antihypertensive oral dose in pediatric patients ages 6 to 17 years is 2.5 mg to 5 mg once daily. Doses in excess of 5 mg daily have not been studied in pediatric patients [see CLINICAL PHARMACOLOGY (12.4), CLINICAL STUDIES (14.1)].

3 DOSAGE FORMS AND STRENGTHS

Tablets: 2.5 mg Pink color mottled, round, flat-faced, beveled edged tablets debossed with "1" on one side and "U" on the other side.

Tablets: 5 mg White to off white capsule shaped tablets debossed with "2" on one side and "U" on the other side.

Tablets: 10 mg White to off white round, flat faced, beveled edged tablet debossed with "L" on one side and "32" on the other side.

4 CONTRAINDICATIONS

Amlodipine besylate tablets are contraindicated in patients with known sensitivity to amlodipine.

5 WARNINGS AND PRECAUTIONS

5.1 Hypotension

Symptomatic hypotension is possible, particularly in patients with severe aortic stenosis. Because of the gradual onset of action, acute hypotension is unlikely.

5.2 Increased Angina or Myocardial Infarction

Worsening angina and acute myocardial infarction can develop after starting or increasing the dose of amlodipine, particularly in patients with severe obstructive coronary artery disease.

5.3 Patients with Hepatic Failure

Because amlodipine besylate is extensively metabolized by the liver and the plasma elimination half-life $(t_{1/2})$ is 56 hours in patients with impaired hepatic function, titrate slowly when administering amlodipine besylate to patients with severe hepatic impairment.

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.

Amlodipine has been evaluated for safety in more than 11,000 patients in U.S. and foreign clinical trials. In general, treatment with amlodipine was well-tolerated at doses up to 10 mg daily. Most adverse reactions reported during therapy with amlodipine were of mild or moderate severity. In controlled clinical trials directly comparing amlodipine (N=1730) at doses up to 10 mg to placebo (N=1250), discontinuation of amlodipine because of adverse reactions was required in only about 1.5% of patients and was not significantly different from placebo (about 1%). The most commonly reported side effects more frequent than placebo are reflected in the table below. The incidence (%) of side effects that occurred in a dose related manner are as follows:

	Amlodipine		Placebo	
	2.5 mg N=275	5 mg N=296	10 mg N=268	N=520
Edema	1.8	3.0	10.8	0.6
Dizziness	1.1	3.4	3.4	1.5
Flushing	0.7	1.4	2.6	0.0
Palpitation	0.7	1.4	4.5	0.6

Other adverse reactions that were not clearly dose related but were reported with an incidence greater than 1.0% in placebo-controlled clinical trials include the following:

	Amlodipine (%) (N=1730)	Placebo (%) (N=1250)
Fatigue	4.5	2.8
Nausea	2.9	1.9
Abdominal Pain	1.6	0.3
Somnolence	1.4	0.6

For several adverse experiences that appear to be drug and dose related, there was a greater incidence in women than men associated with amlodipine treatment as shown in the following table:

	Amlodipine		Pla	cebo
	Male=% (N=1218)	Female=% (N=512)	Male=% (N=914)	Female=% (N=336)
Edema	5.6	14.6	1.4	5.1
Flushing	1.5	4.5	0.3	0.9
Palpitations	1.4	3.3	0.9	0.9
Somnolence	1.3	1.6	0.8	0.3

The following events occurred in <1% but >0.1% of patients in controlled clinical trials or under conditions of open trials or marketing experience where a causal relationship is uncertain; they are listed to alert the physician to a possible relationship:

Cardiovascular

arrhythmia (including ventricular tachycardia and atrial fibrillation), bradycardia, chest pain, peripheral ischemia, syncope, tachycardia, vasculitis.

Central and Peripheral Nervous System

hypoesthesia, neuropathy peripheral, paresthesia, tremor, vertigo.

Gastrointestinal

anorexia, constipation, dysphagia, diarrhea, flatulence, pancreatitis, vomiting, gingival hyperplasia.

General

allergic reaction, asthenia, back pain, hot flushes, malaise, pain, rigors, weight gain, weight decrease.

Musculoskeletal System

arthralgia, arthrosis, muscle cramps, 1 myalgia.

Psychiatric

sexual dysfunction (male¹ and female), insomnia, nervousness, depression, abnormal

dreams, anxiety, depersonalization.

Respiratory System

dyspnea,¹ epistaxis.

Skin and Appendages

angioedema, erythema multiforme, pruritus, ¹ rash, ¹ rash erythematous, rash maculopapular.

Special Senses

abnormal vision, conjunctivitis, diplopia, eye pain, tinnitus.

Urinary System

micturition frequency, micturition disorder, nocturia.

Autonomic Nervous System

dry mouth, sweating increased.

Metabolic and Nutritional

hyperglycemia, thirst.

Hemopoietic

leukopenia, purpura, thrombocytopenia.

¹These events occurred in less than 1% in placebo-controlled trials, but the incidence of these side effects was between 1% and 2% in all multiple dose studies.

Amlodipine therapy has not been associated with clinically significant changes in routine laboratory tests. No clinically relevant changes were noted in serum potassium, serum glucose, total triglycerides, total cholesterol, HDL cholesterol, uric acid, blood urea nitrogen, or creatinine.

In the CAMELOT and PREVENT studies [see CLINICAL STUDIES (14.4)], the adverse event profile was similar to that reported previously (see above), with the most common adverse event being peripheral edema.

6.2 Postmarketing Experience

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.

The following postmarketing event has been reported infrequently where a causal relationship is uncertain: gynecomastia. In postmarketing experience, jaundice and hepatic enzyme elevations (mostly consistent with cholestasis or hepatitis), in some cases severe enough to require hospitalization, have been reported in association with use of amlodipine.

Postmarketing reporting has also revealed a possible association between extrapyramidal disorder and amlodipine.

Amlodipine has been used safely in patients with chronic obstructive pulmonary disease, well-compensated congestive heart failure, coronary artery disease, peripheral vascular

disease, diabetes mellitus, and abnormal lipid profiles.

7 DRUG INTERACTIONS

7.1 Impact of Other Drugs on Amlodipine

CYP3A Inhibitors

Co-administration with CYP3A inhibitors (moderate and strong) results in increased systemic exposure to amlodipine and may require dose reduction. Monitor for symptoms of hypotension and edema when amlodipine is co-administered with CYP3A inhibitors to determine the need for dose adjustment [see CLINICAL PHARMACOLOGY (12.3)].

CYP3A Inducers

No information is available on the quantitative effects of CYP3A inducers on amlodipine. Blood pressure should be closely monitored when amlodipine is co-administered with CYP3A inducers.

Sildenafil

Monitor for hypotension when sildenafil is co-administered with amlodipine [see CLINICAL PHARMACOLOGY (12.2)].

7.2 Impact of Amlodipine on Other Drugs

Simvastatin

Co-administration of simvastatin with amlodipine increases the systemic exposure of simvastatin. Limit the dose of simvastatin in patients on amlodipine to 20 mg daily [see CLINICAL PHARMACOLOGY (12.3)].

Immunosuppressants

Amlodipine may increase the systemic exposure of cyclosporine or tacrolimus when coadministered. Frequent monitoring of trough blood levels of cyclosporine and tacrolimus is recommended and adjust the dose when appropriate [see CLINICAL PHARMACOLOGY (12.3)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

The limited available data based on post-marketing reports with amlodipine use in pregnant women are not sufficient to inform a drug-associated risk for major birth defects and miscarriage. There are risks to the mother and fetus associated with poorly controlled hypertension in pregnancy [see Clinical Considerations]. In animal reproduction studies, there was no evidence of adverse developmental effects when pregnant rats and rabbits were treated orally with amlodipine maleate during organogenesis at doses approximately 10 and 20-times the maximum recommended human dose (MRHD), respectively. However for rats, litter size was significantly

decreased (by about 50%) and the number of intrauterine deaths was significantly increased (about 5-fold). Amlodipine has been shown to prolong both the gestation period and the duration of labor in rats at this dose [see Data].

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations:

Disease-associated maternal and/or embryo/fetal risk

Hypertension in pregnancy increases the maternal risk for pre-eclampsia, gestational diabetes, premature delivery, and delivery complications (e.g., need for cesarean section and post-partum hemorrhage). Hypertension increases the fetal risk for intrauterine growth restriction and intrauterine death. Pregnant women with hypertension should be carefully monitored and managed accordingly.

Data:

Animal Data

No evidence of teratogenicity or other embryo/fetal toxicity was found when pregnant rats and rabbits were treated orally with amlodipine maleate at doses up to 10 mg amlodipine/kg/day (approximately 10 and 20 times the MRHD based on body surface area, respectively) during their respective periods of major organogenesis. However for rats, litter size was significantly decreased (by about 50%) and the number of intrauterine deaths was significantly increased (about 5-fold) in rats receiving amlodipine maleate at a dose equivalent to 10 mg amlodipine/kg/day for 14 days before mating and throughout mating and gestation. Amlodipine maleate has been shown to prolong both the gestation period and the duration of labor in rats at this dose.

8.2 Lactation

Risk Summary

Limited available data from a published clinical lactation study reports that amlodipine is present in human milk at an estimated median relative infant dose of 4.2%. No adverse effects of amlodipine on the breastfed infant have been observed. There is no available information on the effects of amlodipine on milk production.

8.4 Pediatric Use

Amlodipine besylate (2.5 to 5 mg daily) is effective in lowering blood pressure in patients 6 to 17 years [see CLINICAL STUDIES (14.1)]. Effect of Amlodipine besylate on blood pressure in patients less than 6 years of age is not known.

8.5 Geriatric Use

Clinical studies of amlodipine did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be

cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy. Elderly patients have decreased clearance of amlodipine with a resulting increase of AUC of approximately 40 to 60%, and a lower initial dose may be required [see DOSAGE AND ADMINISTRATION (2.1)].

10 OVERDOSAGE

Overdosage might be expected to cause excessive peripheral vasodilation with marked hypotension and possibly a reflex tachycardia. In humans, experience with intentional overdosage of amlodipine is limited.

Single oral doses of amlodipine maleate equivalent to 40 mg amlodipine/kg and 100 mg amlodipine/kg in mice and rats, respectively, caused deaths. Single oral amlodipine maleate doses equivalent to 4 or more mg amlodipine/kg or higher in dogs (11 or more times the maximum recommended human dose on a mg/m² basis) caused a marked peripheral vasodilation and hypotension.

If massive overdose should occur, initiate active cardiac and respiratory monitoring. Frequent blood pressure measurements are essential. Should hypotension occur, provide cardiovascular support including elevation of the extremities and the judicious administration of fluids. If hypotension remains unresponsive to these conservative measures, consider administration of vasopressors (such as phenylephrine) with attention to circulating volume and urine output. As amlodipine is highly protein bound, hemodialysis is not likely to be of benefit.

11 DESCRIPTION

Amlodipine besylate is the besylate salt of amlodipine, a long-acting calcium channel blocker.

Amlodipine besylate is chemically described as 3-Ethyl-5-methyl (\pm)-2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylate, monobenzenesulphonate. Its empirical formula is $C_{20}H_{25}ClN_2O_5 \cdot C_6H_6O_3S$, and its structural formula is:

Amlodipine besylate is a white crystalline powder with a molecular weight of 567.1. It is slightly soluble in water and sparingly soluble in ethanol. Amlodipine besylate tablets USP

are formulated as tablets equivalent to 2.5 mg, 5 mg and 10 mg of amlodipine for oral administration. In addition to the active ingredient, amlodipine besylate, each tablet contains the following inactive ingredients: colloidal silicon dioxide, dicalcium phosphate anhydrous, FD & C red no. 40 aluminum lake (only for 2.5 mg strength), magnesium stearate, microcrystalline cellulose and povidone.

Amlodipine besylate tablets USP meet USP Dissolution Test 2.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Amlodipine is a dihydropyridine calcium antagonist (calcium ion antagonist or slow-channel blocker) that inhibits the transmembrane influx of calcium ions into vascular smooth muscle and cardiac muscle. Experimental data suggest that amlodipine binds to both dihydropyridine and nondihydropyridine binding sites. The contractile processes of cardiac muscle and vascular smooth muscle are dependent upon the movement of extracellular calcium ions into these cells through specific ion channels. Amlodipine inhibits calcium ion influx across cell membranes selectively, with a greater effect on vascular smooth muscle cells than on cardiac muscle cells. Negative inotropic effects can be detected *in vitro* but such effects have not been seen in intact animals at therapeutic doses. Serum calcium concentration is not affected by amlodipine. Within the physiologic pH range, amlodipine is an ionized compound (pKa=8.6), and its kinetic interaction with the calcium channel receptor is characterized by a gradual rate of association and dissociation with the receptor binding site, resulting in a gradual onset of effect.

Amlodipine is a peripheral arterial vasodilator that acts directly on vascular smooth muscle to cause a reduction in peripheral vascular resistance and reduction in blood pressure.

The precise mechanisms by which amlodipine relieves angina have not been fully delineated, but are thought to include the following:

Exertional Angina

In patients with exertional angina, amlodipine reduces the total peripheral resistance (afterload) against which the heart works and reduces the rate pressure product, and thus myocardial oxygen demand, at any given level of exercise.

Vasospastic Angina

Amlodipine has been demonstrated to block constriction and restore blood flow in coronary arteries and arterioles in response to calcium, potassium epinephrine, serotonin, and thromboxane A2 analog in experimental animal models and in human coronary vessels *in vitro*. This inhibition of coronary spasm is responsible for the effectiveness of amlodipine in vasospastic (Prinzmetal's or variant) angina.

12.2 Pharmacodynamics

Hemodynamics

Following administration of therapeutic doses to patients with hypertension, amlodipine produces vasodilation resulting in a reduction of supine and standing blood pressures.

These decreases in blood pressure are not accompanied by a significant change in heart rate or plasma catecholamine levels with chronic dosing. Although the acute intravenous administration of amlodipine decreases arterial blood pressure and increases heart rate in hemodynamic studies of patients with chronic stable angina, chronic oral administration of amlodipine in clinical trials did not lead to clinically significant changes in heart rate or blood pressures in normotensive patients with angina.

With chronic once daily oral administration, antihypertensive effectiveness is maintained for at least 24 hours. Plasma concentrations correlate with effect in both young and elderly patients. The magnitude of reduction in blood pressure with amlodipine is also correlated with the height of pretreatment elevation; thus, individuals with moderate hypertension (diastolic pressure 105 to 114 mmHg) had about a 50% greater response than patients with mild hypertension (diastolic pressure 90 to 104 mmHg). Normotensive subjects experienced no clinically significant change in blood pressures (+1/-2 mmHg).

In hypertensive patients with normal renal function, therapeutic doses of amlodipine resulted in a decrease in renal vascular resistance and an increase in glomerular filtration rate and effective renal plasma flow without change in filtration fraction or proteinuria.

As with other calcium channel blockers, hemodynamic measurements of cardiac function at rest and during exercise (or pacing) in patients with normal ventricular function treated with amlodipine have generally demonstrated a small increase in cardiac index without significant influence on dP/dt or on left ventricular end diastolic pressure or volume. In hemodynamic studies, amlodipine has not been associated with a negative inotropic effect when administered in the therapeutic dose range to intact animals and man, even when co-administered with beta-blockers to man. Similar findings, however, have been observed in normal or well-compensated patients with heart failure with agents possessing significant negative inotropic effects.

Electrophysiologic Effects

Amlodipine does not change sinoatrial nodal function or atrioventricular conduction in intact animals or man. In patients with chronic stable angina, intravenous administration of 10 mg did not significantly alter A-H and H-V conduction and sinus node recovery time after pacing. Similar results were obtained in patients receiving amlodipine and concomitant beta-blockers. In clinical studies in which amlodipine was administered in combination with beta-blockers to patients with either hypertension or angina, no adverse effects on electrocardiographic parameters were observed. In clinical trials with angina patients alone, amlodipine therapy did not alter electrocardiographic intervals or produce higher degrees of AV blocks.

Drug interactions

Sildenafil:

When amlodipine and sildenafil were used in combination, each agent independently exerted its own blood pressure lowering effect [see DRUG INTERACTIONS (7.1)].

12.3 Pharmacokinetics

After oral administration of therapeutic doses of amlodipine, absorption produces peak plasma concentrations between 6 and 12 hours. Absolute bioavailability has been estimated to be between 64 and 90%. The bioavailability of amlodipine is not altered by

the presence of food.

Amlodipine is extensively (about 90%) converted to inactive metabolites via hepatic metabolism with 10% of the parent compound and 60% of the metabolites excreted in the urine. *Ex vivo* studies have shown that approximately 93% of the circulating drug is bound to plasma proteins in hypertensive patients. Elimination from the plasma is biphasic with a terminal elimination half-life of about 30 to 50 hours. Steady-state plasma levels of amlodipine are reached after 7 to 8 days of consecutive daily dosing.

The pharmacokinetics of amlodipine are not significantly influenced by renal impairment. Patients with renal failure may therefore receive the usual initial dose.

Elderly patients and patients with hepatic insufficiency have decreased clearance of amlodipine with a resulting increase in AUC of approximately 40 to 60%, and a lower initial dose may be required. A similar increase in AUC was observed in patients with moderate to severe heart failure.

Drug interactions

In vitro data indicate that amlodipine has no effect on the human plasma protein binding of digoxin, phenytoin, warfarin, and indomethacin.

Impact of other drugs on amlodipine:

Co-administered cimetidine, magnesium-and aluminum hydroxide antacids, sildenafil, and grapefruit juice have no impact on the exposure to amlodipine.

CYP3A inhibitors

Co-administration of a 180 mg daily dose of diltiazem with 5 mg amlodipine in elderly hypertensive patients resulted in a 60% increase in amlodipine systemic exposure. Erythromycin co-administration in healthy volunteers did not significantly change amlodipine systemic exposure. However, strong inhibitors of CYP3A (e.g., itraconazole, clarithromycin) may increase the plasma concentrations of amlodipine to a greater extent [see DRUG INTERACTIONS (7.1)].

Impact of amlodipine on other drugs:

Amlodipine is a weak inhibitor of CYP3A and may increase exposure to CYP3A substrates.

Co-administered amlodipine does not affect the exposure to atorvastatin, digoxin, ethanol and the warfarin prothrombin response time.

Simvastatin

Co-administration of multiple doses of 10 mg of amlodipine with 80 mg simvastatin resulted in a 77% increase in exposure to simvastatin compared to simvastatin alone [see DRUG INTERACTIONS (7.2)].

Cyclosporine

A prospective study in renal transplant patients (N=11) showed on an average of 40% increase in trough cyclosporine levels when concomitantly treated with amlodipine [see DRUG INTERACTIONS (7.2)].

Tacrolimus

A prospective study in healthy Chinese volunteers (N=9) with CYP3A5 expressers

showed a 2.5-to 4-fold increase in tacrolimus exposure when concomitantly administered with amlodipine compared to tacrolimus alone. This finding was not observed in CYP3A5 non-expressers (N= 6). However, a 3-fold increase in plasma exposure to tacrolimus in a renal transplant patient (CYP3A5 non-expresser) upon initiation of amlodipine for the treatment of post-transplant hypertension resulting in reduction of tacrolimus dose has been reported. Irrespective of the CYP3A5 genotype status, the possibility of an interaction cannot be excluded with these drugs [see DRUG INTERACTIONS (7.2)].

12.4 Pediatric Patients

Sixty-two hypertensive patients aged 6 to 17 years received doses of amlodipine between 1.25 mg and 20 mg. Weight-adjusted clearance and volume of distribution were similar to values in adults.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Rats and mice treated with amlodipine maleate in the diet for up to two years, at concentrations calculated to provide daily dosage levels of 0.5, 1.25, and 2.5 amlodipine mg/kg/day, showed no evidence of a carcinogenic effect of the drug. For the mouse, the highest dose was, on a mg/m² basis, similar to the maximum recommended human dose of 10 mg amlodipine/day.³ For the rat, the highest dose was, on a mg/m² basis, about twice the maximum recommended human dose.³

Mutagenicity studies conducted with amlodipine maleate revealed no drug related effects at either the gene or chromosome level.

There was no effect on the fertility of rats treated orally with amlodipine maleate (males for 64 days and females for 14 days prior to mating) at doses up to 10 mg amlodipine/kg/day (8 times the maximum recommended human dose³ of 10 mg/day on a mg/m² basis).

³Based on patient weight of 50 kg

14 CLINICAL STUDIES

14.1 Effects in Hypertension

Adult Patients

The antihypertensive efficacy of amlodipine has been demonstrated in a total of 15 double-blind, placebo-controlled, randomized studies involving 800 patients on amlodipine and 538 on placebo. Once daily administration produced statistically significant placebo-corrected reductions in supine and standing blood pressures at 24 hours postdose, averaging about

12/6 mmHg in the standing position and 13/7 mmHg in the supine position in patients with mild to moderate hypertension. Maintenance of the blood pressure effect over the 24-hour dosing interval was observed, with little difference in peak and trough effect. Tolerance was not demonstrated in patients studied for up to 1 year. The 3 parallel, fixed

dose, dose response studies showed that the reduction in supine and standing blood pressures was dose-related within the recommended dosing range. Effects on diastolic pressure were similar in young and older patients. The effect on systolic pressure was greater in older patients, perhaps because of greater baseline systolic pressure. Effects were similar in black patients and in white patients.

Pediatric Patients

Two hundred sixty-eight hypertensive patients aged 6 to 17 years were randomized first to amlodipine 2.5 or 5 mg once daily for 4 weeks and then randomized again to the same dose or to placebo for another 4 weeks. Patients receiving 2.5 mg or 5 mg at the end of 8 weeks had significantly lower systolic blood pressure than those secondarily randomized to placebo. The magnitude of the treatment effect is difficult to interpret, but it is probably less than 5 mmHg systolic on the 5 mg dose and 3.3 mmHg systolic on the 2.5 mg dose. Adverse events were similar to those seen in adults.

14.2 Effects in Chronic Stable Angina

The effectiveness of 5 to 10 mg/day of amlodipine in exercise-induced angina has been evaluated in 8 placebo-controlled, double-blind clinical trials of up to 6 weeks duration involving 1038 patients (684 amlodipine, 354 placebo) with chronic stable angina. In 5 of the 8 studies, significant increases in exercise time (bicycle or treadmill) were seen with the 10 mg dose. Increases in symptom-limited exercise time averaged 12.8% (63 sec) for amlodipine 10 mg, and averaged 7.9% (38 sec) for amlodipine 5 mg. Amlodipine 10 mg also increased time to 1 mm ST segment deviation in several studies and decreased angina attack rate. The sustained efficacy of amlodipine in angina patients has been demonstrated over long-term dosing. In patients with angina, there were no clinically significant reductions in blood pressures (4/1 mmHg) or changes in heart rate (+0.3 bpm).

14.3 Effects in Vasospastic Angina

In a double-blind, placebo-controlled clinical trial of 4 weeks duration in 50 patients, amlodipine therapy decreased attacks by approximately 4/week compared with a placebo decrease of approximately 1/week (p<0.01). Two of 23 amlodipine and 7 of 27 placebo patients discontinued from the study due to lack of clinical improvement.

14.4 Effects in Documented Coronary Artery Disease

In PREVENT, 825 patients with angiographically documented coronary artery disease were randomized to amlodipine (5 to 10 mg once daily) or placebo and followed for 3 years. Although the study did not show significance on the primary objective of change in coronary luminal diameter as assessed by quantitative coronary angiography, the data suggested a favorable outcome with respect to fewer hospitalizations for angina and revascularization procedures in patients with CAD.

CAMELOT enrolled 1318 patients with CAD recently documented by angiography, without left main coronary disease and without heart failure or an ejection fraction <40%. Patients (76% males, 89% Caucasian, 93% enrolled at US sites, 89% with a history of angina, 52% without PCI, 4% with PCI and no stent, and 44% with a stent) were randomized to double-blind treatment with either amlodipine (5 to 10 mg once daily) or placebo in addition to standard care that included aspirin (89%), statins (83%), beta-blockers (74%), nitroglycerin (50%), anti-coagulants (40%), and diuretics (32%),

but excluded other calcium channel blockers. The mean duration of follow-up was 19 months. The primary endpoint was the time to first occurrence of one of the following events: hospitalization for angina pectoris, coronary revascularization, myocardial infarction, cardiovascular death, resuscitated cardiac arrest, hospitalization for heart failure, stroke/TIA, or peripheral vascular disease. A total of 110 (16.6%) and 151 (23.1%) first events occurred in the amlodipine and placebo groups, respectively, for a hazard ratio of 0.691 (95% CI: 0.540 to 0.884, p = 0.003). The primary endpoint is summarized in Figure 1 below. The outcome of this study was largely derived from the prevention of hospitalizations for angina and the prevention of revascularization procedures (see Table 1). Effects in various subgroups are shown in Figure 2.

In an angiographic substudy (n=274) conducted within CAMELOT, there was no significant difference between amlodipine and placebo on the change of atheroma volume in the coronary artery as assessed by intravascular ultrasound.

Figure 1 - Kaplan-Meier Analysis of Composite Clinical Outcomes for Amlodipine versus Placebo

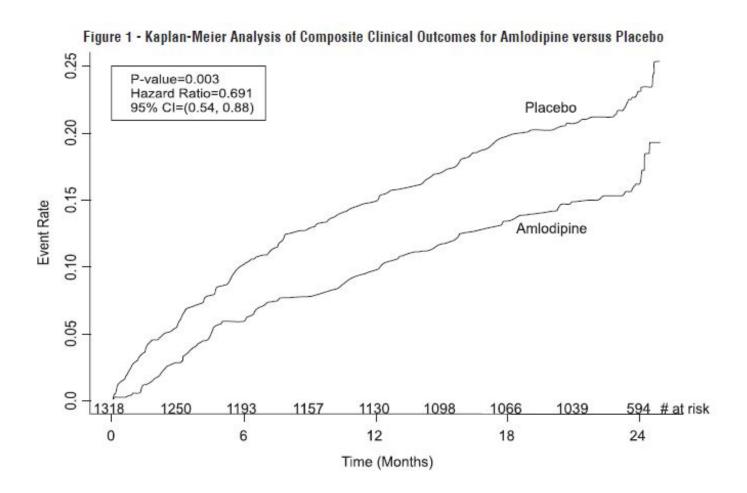
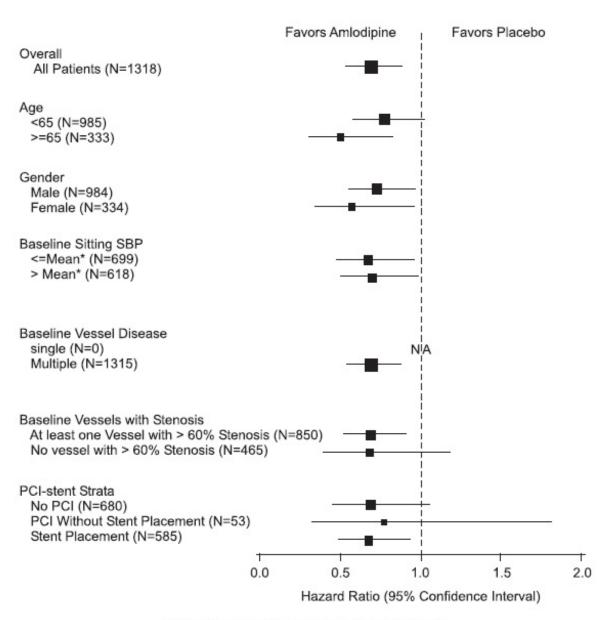


Figure 2 - Effects on Primary Endpoint of Amlodipine versus Placebo across Sub-Groups



* The mean sitting baseline SBP is 129 mmHg

Table 1 below summarizes the significant composite endpoint and clinical outcomes from the composites of the primary endpoint. The other components of the primary endpoint including cardiovascular death, resuscitated cardiac arrest, myocardial infarction, hospitalization for heart failure, stroke/TIA, or peripheral vascular disease did not demonstrate a significant difference between amlodipine and placebo.

Table 1. Incidence of Significant Clinical Outcomes for CAMELOT

Clinical Outcomes	Amlodipine	Placebo	Risk Reduction
N (%)	(N=663)	(N=655)	(p-value)
Composite CV Endpoint	110	151	31%
	(16.6)	(23.1)	(0.003)
Hospitalization for Angina*	51	84	42%
	(7.7)	(12.8)	(0.002)
Coronary Revascularization*	78	103	27%
	(11.8)	(15.7)	(0.033)

14.5 Studies in Patients with Heart Failure

Amlodipine has been compared to placebo in four 8 to 12 week studies of patients with NYHA Class II/III heart failure, involving a total of 697 patients. In these studies, there was no evidence of worsened heart failure based on measures of exercise tolerance, NYHA classification, symptoms, or left ventricular ejection fraction. In a long-term (follow-up at least 6 months, mean 13.8 months) placebo- controlled mortality/morbidity study of amlodipine 5 to 10 mg in 1153 patients with NYHA Classes III (n=931) or IV (n=222) heart failure on stable doses of diuretics, digoxin, and ACE inhibitors, amlodipine had no effect on the primary endpoint of the study which was the combined endpoint of all-cause mortality and cardiac morbidity (as defined by life-threatening arrhythmia, acute myocardial infarction, or hospitalization for worsened heart failure), or on NYHA classification, or symptoms of heart failure. Total combined all-cause mortality and cardiac morbidity events were 222/571 (39%) for patients on amlodipine and 246/583 (42%) for patients on placebo; the cardiac morbid events represented about 25% of the endpoints in the study.

Another study (PRAISE-2) randomized patients with NYHA Class III (80%) or IV (20%) heart failure without clinical symptoms or objective evidence of underlying ischemic disease, on stable doses of ACE inhibitors (99%), digitalis (99%), and diuretics (99%), to placebo (n=827) or amlodipine (n=827) and followed them for a mean of 33 months. There was no statistically significant difference between amlodipine and placebo in the primary endpoint of all-cause mortality (95% confidence limits from 8% reduction to 29% increase on amlodipine). With amlodipine there were more reports of pulmonary edema.

16 HOW SUPPLIED/STORAGE AND HANDLING

2.5 mg Tablets

Amlodipine Besylate Tablets USP, 2.5 mg – (amlodipine besylate equivalent to 2.5 mg of amlodipine per tablet) are supplied as Pink color mottled, round, flat-faced, beveled edged tablets debossed with "1" on one side and "U" on the other side and supplied as follows:

NDC 68180-233-01 Bottles of 90

NDC 68180-233-02 Bottles of 1000

5 mg Tablets

Amlodipine Besylate Tablets USP, 5 mg - (amlodipine besylate equivalent to 5 mg of amlodipine per tablet) are supplied as White to off white capsule shaped tablets debossed with "2" on one side and "U" on the other side and supplied as follows:

NDC 68180-455-01 Bottles of 90

NDC 68180-455-02 Bottles of 1000

10 mg Tablets

Amlodipine Besylate Tablets USP, 10 mg - (amlodipine besylate equivalent to 10 mg of amlodipine per tablet) are supplied as White to off white round, flat faced, beveled edged

tablet debossed with "L" on one side and "32" on the other side and supplied as follows:

NDC 68180-721-09 Bottles of 90

NDC 68180-721-03 Bottles of 1000

Storage

Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature] and dispense in tight, light-resistant containers (USP).

Manufactured for:

Lupin Pharmaceuticals, Inc.

Naples, FL 34108

United States

MADE IN INDIA.

Revised: December 2024

Amlodipine Besylate (am-LOE-di-peen BES-i-late)

Tablets USP

Rx Only

Read this information carefully before you start taking **amlodipine besylate tablets** and each time you refill your prescription. There may be new information. This information does not replace talking with your doctor. If you have any questions about **amlodipine besylate tablets**, ask your doctor. Your doctor will know if an **amlodipine besylate tablet** is right for you.

What is Amlodipine Besylate Tablet?

Amlodipine besylate tablet is a type of medicine known as a calcium channel blocker (CCB). It is used to treat high blood pressure (hypertension) and a type of chest pain called angina. It can be used by itself or with other medicines to treat these conditions.

High Blood Pressure (hypertension)

High blood pressure comes from blood pushing too hard against your blood vessels. **Amlodipine besylate tablet** relaxes your blood vessels, which lets your blood flow more easily and helps lower your blood pressure. Drugs that lower blood pressure lower your risk of having a stroke or heart attack.

Angina

Angina is a pain or discomfort that keeps coming back when part of your heart does not get enough blood. Angina feels like a pressing or squeezing pain, usually in your chest under the breastbone. Sometimes you can feel it in your shoulders, arms, neck, jaws, or back. **Amlodipine besylate tablets** can relieve this pain.

Who should not use Amlodipine Besylate Tablets?

Do not use **amlodipine besylate tablets** if you are allergic to amlodipine (the active ingredient in **amlodipine besylate tablets**), or to the inactive ingredients. Your doctor or pharmacist can give you a list of these ingredients.

What should I tell my doctor before taking Amlodipine Besylate Tablets?

Tell your doctor about any prescription and non-prescription medicines you are taking, including natural or herbal remedies.

Tell your doctor if you:

- ever had heart disease
- ever had liver problems
- are pregnant, or plan to become pregnant. Your doctor will decide if **amlodipine besylate tablet** is the best treatment for you.
- are breast-feeding. Amlodipine besylate tablet passes into your milk.

How should I take Amlodipine Besylate Tablets?

- Takeamlodipine besylate tablet once a day, with or without food.
- It may be easier to take your dose if you do it at the same time every day, such as
 with breakfast or dinner, or at bedtime. Do not take more than one dose
 ofamlodipine besylate tablets at a time.
- If you miss a dose, take it as soon as you remember. Do not take**amlodipine besylate tablets** if it has been more than 12 hours since you missed your last dose. Wait and take the next dose at your regular time.
- Other medicines: You can use nitroglycerin and amlodipine besylate tablets together. If you take nitroglycerin for angina, don't stop taking it while you are taking amlodipine besylate tablets.
- While you are taking**amlodipine besylate tablets**, do not stop taking your other prescription medicines, including any other blood pressure medicines, without talking to your doctor.
- If you took too much**amlodipine besylate tablets,** call your doctor or Poison Control Center, or go to the nearest hospital emergency room right away.

What should I avoid while taking Amlodipine Besylate Tablets?

• **Do not** start any new prescription or non-prescription medicines or supplements, unless you check with your doctor first.

What are the possible side effects of Amlodipine Besylate Tablets?

Amlodipine besylate tablets may cause the following side effects. Most side effects are mild or moderate:

- swelling of your legs or ankles
- tiredness, extreme sleepiness
- stomach pain, nausea
- dizziness
- flushing (hot or warm feeling in your face)
- arrhythmia (irregular heartbeat)
- heart palpitations (very fast heartbeat)
- muscle rigidity, tremor and/or abnormal muscle movement

It is rare, but when you first start taking **amlodipine besylate tablets** or increase your dose, you may have a heart attack or your angina may get worse. If that happens, call your doctor right away or go directly to a hospital emergency room.

Tell your doctor if you are concerned about any side effects you experience. These are not all the possible side effects of **amlodipine besylate tablets.** For a complete list,

ask your doctor or pharmacist.

To report side effects, contact FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

How do I store Amlodipine Besylate Tablets?

Keep amlodipine besylate tablets away from children. Store amlodipine besylate tablets at 20° to 25°C (68° to 77°F). Keep amlodipine besylate tablets out of the light. Do not store in the bathroom. Keep amlodipine besylate tablets in a dry place.

General advice about Amlodipine Besylate Tablets

Sometimes, doctors will prescribe a medicine for a condition that is not written in the patient information leaflets. Only use **amlodipine besylate tablets** the way your doctor told you to. Do not give amlodipine besylate tablets to other people, even if they have the same symptoms you have. It may harm them.

You can ask your pharmacist or doctor for information about amlodipine besylate tablets, or you can visit the Lupin website at www.lupinpharmaceuticals.com or call 1-800-399-2561.

LUPIN and the are registered trademarks of Lupin Pharmaceuticals, Inc.

Manufactured for:

Lupin Pharmaceuticals, Inc.

Naples, FL 34108

United States

MADE IN INDIA.

Revised: December

2024 ID#: 278909

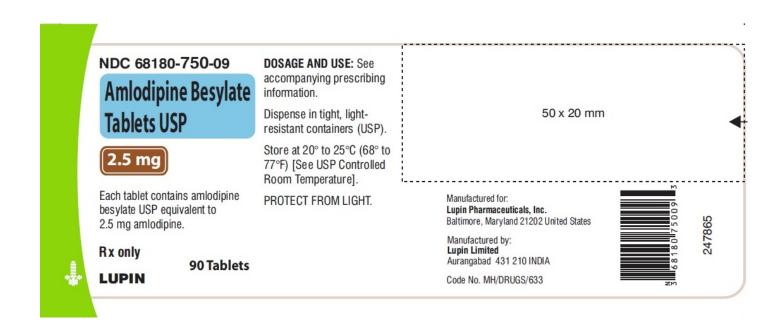
PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

AMLODIPINE BESYLATE TABLETS USP

Rx only

2.5 mg

NDC 68180-750-09



AMLODIPINE BESYLATE TABLETS USP

Rx Only

2.5 mg

NDC 68180-719-09

90 Tablets



AMLODIPINE BESYLATE TABLETS USP

Rx Only

2.5 mg

NDC 68180-233-01

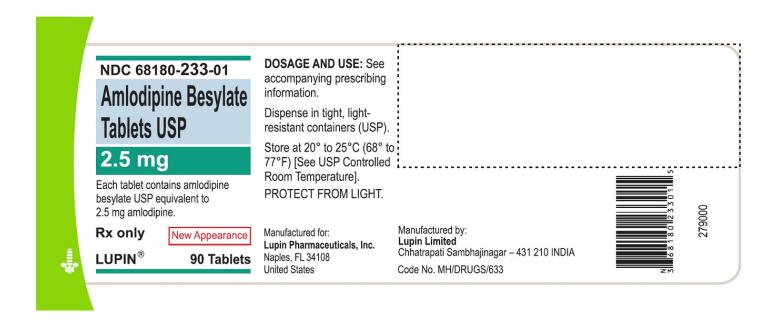


AMLODIPINE BESYLATE TABLETS USP

Rx Only

2.5 mg

NDC 68180-233-01 (With New Strength Bar Color)

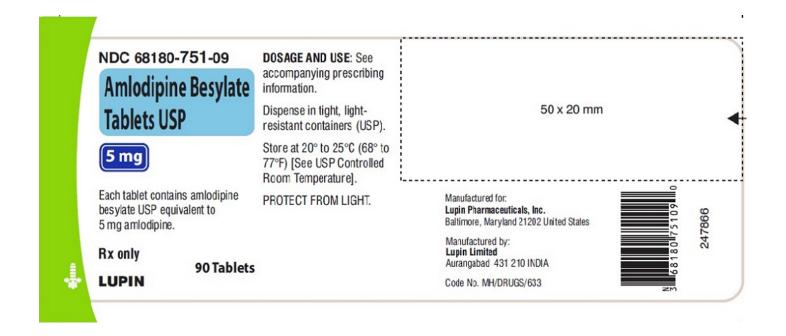


Rx Only

5 mg

NDC 68180-751-09

90 Tablets

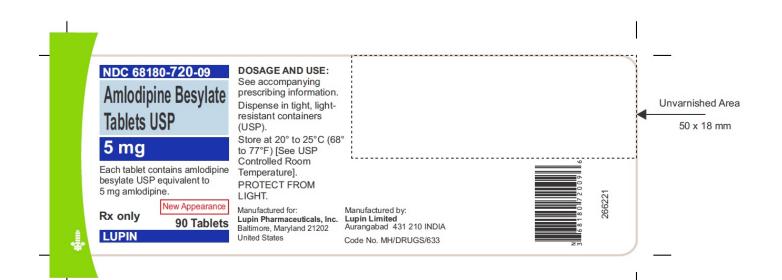


AMLODIPINE BESYLATE TABLETS USP

Rx Only

5 mg

NDC 68180-720-09



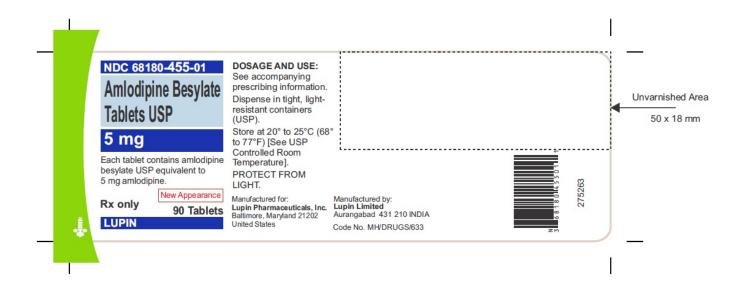
AMLODIPINE BESYLATE TABLETS USP

Rx Only

5 mg

NDC 68180-455-01

90 Tablets

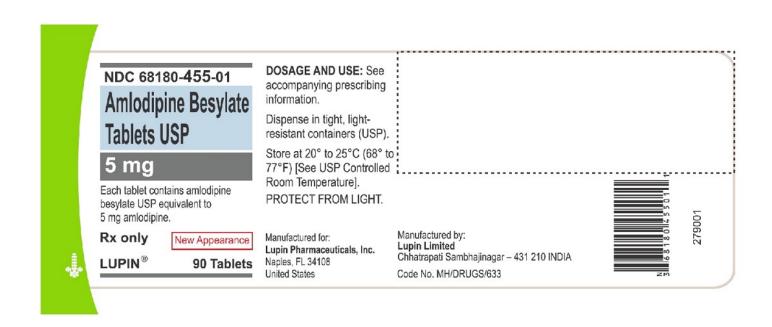


AMLODIPINE BESYLATE TABLETS USP

Rx Only

5 mg

NDC 68180-455-01 (With New Strength Bar Color)



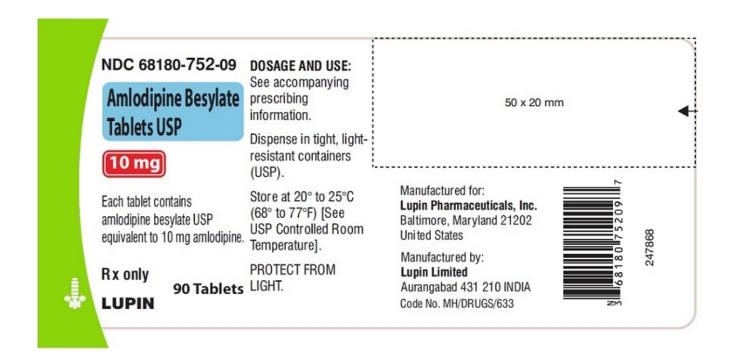
AMLODIPINE BESYLATE TABLETS USP

Rx Only

10 mg

NDC 68180-752-09

90 Tablets



AMLODIPINE BESYLATE TABLETS USP

Rx Only

10 mg

NDC 68180-721-09



DOSAGE AND USE:

See accompanying prescribing information. Dispense in tight, lightresistant containers (USP). Store at 20° to 25°C (68° to 77°F) [See USP Controlled

Room Temperature]. PROTECT FROM LIGHT.

Lupin Pharmaceuticals, Inc.

Manufactured for:

Naples, FL 34108 United States

Manufactured by: Lupin Limited Chhatrapati Sambhajinagar 431 210 INDIA Code No. MH/DRUGS/633



Rx only

LUPIN®

90 Tablets

AMLODIPINE BESYLATE

amlodipine besylate tablet

Product Information

Product Type HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:68180-750 **Route of Administration ORAL**

Active Ingredient/Active Moiety

Ingredient Name Basis of Strength Strength AMLODIPINE BESYLATE (UNII: 864V2Q084H) (AMLODIPINE - UNII:1J444QC288) **AMLODIPINE** 2.5 mg

Inactive Ingredients Ingredient Name Strength DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP) **SODIUM STARCH GLYCOLATE TYPE A POTATO** (UNII: 5856J3G2A2) CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U) MAGNESIUM STEARATE (UNII: 70097M6I30)

Product Characteristics				
Color WHITE (White to off white) Score no score				
Shape	DIAMOND (Diamond)	Size	8mm	
Flavor		Imprint Code	LU;H11	
Contains	Contains			

F	Packaging					
#	Item Code	Package Description	Marketing Start Date	Marketing End Date		
1	NDC:68180-750- 09	90 in 1 BOTTLE; Type 0: Not a Combination Product	08/03/2007	06/30/2021		

Marketing Information				
Marketing Application Number or Mond Category Citation		Marketing Start Date	Marketing End Date	
ANDA	ANDA078043	08/03/2007	06/30/2021	

amlodipine besylate tablet

Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68180-751		
Route of Administration	ORAL				

Active Ingredient/Active Moiety					
Ingredient Name	Basis of Strength	Strength			
AMLODIPINE BESYLATE (UNII: 864V2Q084H) (AMLODIPINE - UNII:1J444QC288)	AMLODIPINE	5 mg			

Inactive Ingredients				
Ingredient Name	Strength			
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)				
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)				
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				

Product Characteristics					
Color	WHITE (White to off white)	Score	no score		
Shape	Shape OCTAGON (8 SIDED) (Elongated octagon)		9mm		
Flavor		Imprint Code	LU;H12		
Contains	Contains				

ı	Packaging					
	#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
		NDC:68180-751-	90 in 1 BOTTLE; Type 0: Not a Combination	00/02/2007	0F /21 /2021	

_	09	Product	00/03/2007	02/21/5051
_	NDC:68180-751- 03	1000 in 1 BOTTLE; Type 0: Not a Combination Product	08/03/2007	07/31/2021
	NDC:68180-751- 17	300 in 1 BOTTLE; Type 0: Not a Combination Product	01/01/2040	

Marketing Information				
Marketing Application Number or Monograph Marketing Start Category Citation Date		Marketing End Date		
ANDA	ANDA078043	08/03/2007	07/31/2021	

amlodipine besylate tablet

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68180-752
Route of Administration	ORAL		

Active Ingredient/Active Moiety				
Ingredient Name	Basis of Strength	Strength		
AMLODIPINE BESYLATE (UNII: 864V2Q084H) (AMLODIPINE - UNII:1J444QC288)	AMLODIPINE	10 mg		

Inactive Ingredients	
Ingredient Name	Strength
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	

Product Characteristics				
Color	WHITE (White to off white)	Score	no score	
Shape	ROUND (Round)	Size	11mm	
Flavor		Imprint Code	LU;H13	
Contains				

P	Packaging				
#	# Item Code Package Description		Marketing Start Date	Marketing End Date	
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2			08/03/2007	06/30/2021	

Marketing Information					
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date		
ANDA	ANDA078043	08/03/2007	06/30/2021		
ANDA	ANDA078043	08/03/2007	06/30/2021		

amlodipine besylate tablet

Prod	luct	Infor	mation
	uct		11461

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68180-719
Pouto of Administration	OPAL		

Active Ingredient/Active Moiety

Active migredicity molecy				
Ingredient Name	Basis of Strength	Strength		
AMLODIPINE BESYLATE (UNII: 864V2Q084H) (AMLODIPINE - UNII:1J444Q	C288) AMLODIPINE	2.5 mg		

Inactive Ingredients			
Ingredient Name	Strength		
ANHYDROUS DIBASIC CALCIUM PHOSPHATE (UNII: L11K75P92J)			
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)			
FD&C RED NO. 40 (UNII: WZB9127XOA)			
MAGNESIUM STEARATE (UNII: 70097M6I30)			
POVIDONE (UNII: FZ 989GH94E)			
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)			

Product Characteristics				
Color PINK (pink color mottled) Score no score				
Shape	ROUND (Flat-faced, beveled edged)	Size	7mm	
Flavor		Imprint Code	L;28	
Contains				

P	Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
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2	NDC:68180-719- 09	90 in 1 BOTTLE; Type 0: Not a Combination Product	10/31/2018	01/31/2026	

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA078043	10/31/2018	01/31/2026

amlodipine besylate tablet

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Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68180-720
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Route of Administration ORAL

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength

AMLODIPINE BESYLATE (UNII: 864V2Q084H) (AMLODIPINE - UNII:1J444QC288) AMLODIPINE 5 mg

Inactive Ingredients				
Ingredient Name	Strength			
ANHYDROUS DIBASIC CALCIUM PHOSPHATE (UNII: L11K75P92J)				
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
POVIDONE (UNII: FZ989GH94E)				
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)				

Product Characteristics				
Color	WHITE (White to off white)	Score	no score	
Shape	CAPSULE	Size	8mm	
Flavor		Imprint Code	L;29	
Contains				

F	Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:68180-720- 09	90 in 1 BOTTLE; Type 0: Not a Combination Product	08/15/2018	12/31/2025	
2	NDC:68180-720- 03	1000 in 1 BOTTLE; Type 0: Not a Combination Product	10/31/2018	01/31/2026	

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

ANDA ANDA078043 08/15/2018 01/31/2026

AMLODIPINE BESYLATE

amlodipine besylate tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68180-721
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
AMLODIPINE BESYLATE (UNII: 864V2Q084H) (AMLODIPINE - UNII:1J444QC288)	AMLODIPINE	10 mg

Inactive Ingredients			
Ingredient Name	Strength		
ANHYDROUS DIBASIC CALCIUM PHOSPHATE (UNII: L11K75P92J)			
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)			
MAGNESIUM STEARATE (UNII: 70097M6I30)			
POVIDONE (UNII: FZ989GH94E)			
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)			

Product Characteristics			
Color	WHITE (White to off white)	Score	no score
Shape	ROUND (Flat faced, beveled edged)	Size	7mm
Flavor		Imprint Code	L;32
Contains			

P	ackaging			
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
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2	NDC:68180-721- 09	90 in 1 BOTTLE; Type 0: Not a Combination Product	08/15/2018	

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA078043	08/15/2018	

amlodipine besylate tablet

Product	Inform	ation
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Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68180-233
Route of Administration	ORAL		

Active Ingredient/Active Moiety

ı	Active ingredient/Active Molecy				
	Ingredient Name	Basis of Strength	Strength		
	AMLODIPINE BESYLATE (UNII: 864V2Q084H) (AMLODIPINE - UNII:1J444QC288)	AMLODIPINE	2.5 mg		

Inactive Ingredients		
Ingredient Name	Strength	
ANHYDROUS DIBASIC CALCIUM PHOSPHATE (UNII: L11K75P92J)		
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)		
FD&C RED NO. 40 (UNII: WZB9127XOA)		
MAGNESIUM STEARATE (UNII: 70097M6I30)		
POVIDONE (UNII: FZ 989GH94E)		
SILICON DIOXIDE (UNII: ETJ7Z 6XBU4)		

Product Characteristics			
Color	PINK (pink color mottled)	Score	no score
Shape	ROUND (Flat-faced, beveled edged)	Size	5mm
Flavor		Imprint Code	1;U
Contains			

F	Packaging			
#	t Item Code	Package Description	Marketing Start Date	Marketing End Date
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Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA078043	04/11/2024	

AMLODIPINE BESYLATE

amlodipine besylate tablet

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68180-455
Route of Administration	ORAL		

Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
AMLODIPINE BESYLATE (UNII: 864V2Q084H) (AMLODIPINE - UNII:1J444QC288)	AMLODIPINE	5 mg	

Inactive Ingredients		
Ingredient Name	Strength	
ANHYDROUS DIBASIC CALCIUM PHOSPHATE (UNII: L11K75P92J)		
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)		
MAGNESIUM STEARATE (UNII: 70097M6I30)		
POVIDONE (UNII: FZ 989GH94E)		
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)		

Product Characteristics			
Color	WHITE (White to off white)	Score	no score
Shape	CAPSULE	Size	7mm
Flavor		Imprint Code	2;U
Contains			

Packaging				
#	tem Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68180-455- 01	90 in 1 BOTTLE; Type 0: Not a Combination Product	09/01/2024	
2	NDC:68180-455- 02	1000 in 1 BOTTLE; Type 0: Not a Combination Product	06/12/2024	

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA078043	06/12/2024	

Labeler - Lupin Pharmaceuticals, Inc. (089153071)

Registrant - LUPIN LIMITED (675923163)

Establishment

Name	Address	ID/FEI	Business Operations
LUPIN LIMITED		862272739	MANUFACTURE(68180-750, 68180-751, 68180-752, 68180-719, 68180-720, 68180-721, 68180-233, 68180-455), PACK(68180-750, 68180-751, 68180-752, 68180-719, 68180-720, 68180-721, 68180-233, 68180-455)

Establishment			
Name	Address	ID/FEI	Business Operations
LUPIN LIMITED		677600414	MANUFACTURE(68180-750, 68180-751, 68180-752), PACK(68180-750, 68180-751, 68180-752)

Revised: 5/2025 Lupin Pharmaceuticals, Inc.