IRBESARTAN - irbesartan tablet Aurobindo Pharma Limited

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

IRBESARTAN tablets, for oral use Initial U.S. Approval: 1997

WARNING: FETAL TOXICITY

See full prescribing information for complete boxed warning.

- When pregnancy is detected, discontinue irbesartan as soon as possible. (5.1, 8.1)
- Drugs that act directly on the renin-angiotensin system can cause injury and death to the developing fetus. (5.1, 8.1)

----- INDICATIONS AND USAGE

Irbesartan tablets are an angiotensin II receptor blocker (ARB) indicated for:

- Treatment of hypertension, to lower blood pressure. Lowering blood pressure reduces the risk of fatal and nonfatal cardiovascular events, primarily strokes and myocardial infarctions. (1.1)
- Treatment of diabetic nephropathy in hypertensive patients with type 2 diabetes, an elevated serum creatinine, and proteinuria. (1.2)

..... DOSAGE AND ADMINISTRATION

Indication	Dose
Hypertension (2.2)	150 mg to 300 mg once daily
Diabetic Nephropathy (2.3)	300 mg once daily

------ DOSAGE FORMS AND STRENGTHS ------

• Tablets: 75 mg, 150 mg, 300 mg (3)

----- CONTRAINDICATIONS

- Hypersensitivity to any component of this product. (4)
- Coadministration with aliskiren in patients with diabetes. (4)

------ WARNINGS AND PRECAUTIONS

- Hypotension: Correct volume or salt depletion prior to administration. (5.2)
- Monitor renal function and serum potassium. (5.3)
- ADVERSE REACTIONS
- Nephropathy in type 2 diabetic patients: The most common adverse reactions which were more frequent than placebo were hyperkalemia, dizziness, orthostatic dizziness, and orthostatic hypotension. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Aurobindo Pharma USA, Inc. at 1-866-850-2876 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

- Lithium: Risk of lithium toxicity. (7)
- Nonsteroidal Anti-inflammatory Drugs (NSAIDs) and COX-2 inhibitors: Increased risk of renal impairment. Reduced antihypertensive effects. (7)
- Dual blockade of the renin-angiotensin system: Increased risk of renal impairment, hypotension, and

USE IN SPECIFIC POPULATIONS

• Lactation: Potential for adverse effects in infants. (8.2)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 9/2021

FULL PRESCRIBING INFORMATION: CONTENTS* WARNING: FETAL TOXICITY 1 INDICATIONS AND USAGE

1.1 Hypertension

1.2 Nephropathy in Type 2 Diabetic Patients

2 DOSAGE AND ADMINISTRATION

- 2.1 General Considerations
- 2.2 Hypertension
- 2.3 Nephropathy in Type 2 Diabetic Patients
- 2.4 Dose Adjustment in Volume and Salt-Depleted Patients

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- 5.1 Fetal Toxicity
- 5.2 Hypotension in Volume or Salt-Depleted Patients
- 5.3 Impaired Renal Function

6 ADVERSE REACTIONS

- 6.1 Clinical Trials Experience
- 6.2 Postmarketing Experience

7 DRUG INTERACTIONS

- 7.1 Agents Increasing Serum Potassium
- 7.2 Lithium

7.3 Nonsteroidal Anti-inflammatory Drugs (NSAIDs) Including Selective

Cyclooxygenase-2 Inhibitors (COX-2 Inhibitors)

7.4 Dual Blockade of the Renin-Angiotensin System (RAS)

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.2 Lactation
- 8.4 Pediatric Use
- 8.5 Geriatric Use

10 OVERDOSAGE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
- 12.2 Pharmacodynamics
- 12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

14 CLINICAL STUDIES

14.1 Hypertension 14.2 Nephropathy in Type 2 Diabetic Patients

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

* Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

WARNING: FETAL TOXICITY

- When pregnancy is detected, discontinue irbesartan as soon as possible [see Warnings and Precautions (5.1) and Use in Specific Populations (8.1)].
- Drugs that act directly on the renin-angiotensin system can cause injury and death to the developing fetus [see Warnings and Precautions (5.1) and Use in Specific Populations (8.1)].

1 INDICATIONS AND USAGE

1.1 Hypertension

Irbesartan tablets are indicated for the treatment of hypertension, to lower blood pressure. Lowering blood pressure lowers the risk of fatal and non-fatal cardiovascular (CV) events, primarily strokes and myocardial infarction. These benefits have been seen in controlled trials of antihypertensive drugs from a wide variety of pharmacologic classes including this drug.

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 1 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.

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

1.2 Nephropathy in Type 2 Diabetic Patients

Irbesartan tablets are indicated for the treatment of diabetic nephropathy in patients with type 2 diabetes and hypertension, an elevated serum creatinine, and proteinuria (>300 mg/day). In this population, irbesartan tablets reduces the rate of progression of nephropathy as measured by the occurrence of doubling of serum creatinine or end-stage renal disease (need for dialysis or renal transplantation) [see Clinical Studies (14.2)].

2 DOSAGE AND ADMINISTRATION

2.1 General Considerations

Irbesartan tablets may be administered with other antihypertensive agents and with or without food.

2.2 Hypertension

The recommended initial dose of irbesartan tablets is 150 mg once daily. The dosage can be increased to a maximum dose of 300 mg once daily as needed to control blood pressure [see Clinical Studies (14.1)].

2.3 Nephropathy in Type 2 Diabetic Patients

The recommended dose is 300 mg once daily [see Clinical Studies (14.2)].

2.4 Dose Adjustment in Volume and Salt-Depleted Patients

The recommended initial dose is 75 mg once daily in patients with depletion of intravascular volume or salt (e.g., patients treated vigorously with diuretics or on hemodialysis) [see Warnings and Precautions (5.2)].

3 DOSAGE FORMS AND STRENGTHS

Irbesartan Tablets USP, 75 mg are white to off-white, biconvex, oval shaped uncoated tablets debossed with 'T31' on one side and plain on other side.

Irbesartan Tablets USP, 150 mg are white to off-white, biconvex, oval shaped uncoated tablets debossed with 'T32' on one side and plain on other side.

Irbesartan Tablets USP, 300 mg are white to off-white, biconvex, oval shaped uncoated tablets debossed with 'T33' on one side and plain on other side.

4 CONTRAINDICATIONS

Irbesartan tablets are contraindicated in patients who are hypersensitive to any component of this product.

Do not coadminister aliskiren with irbesartan tablets in patients with diabetes.

5 WARNINGS AND PRECAUTIONS

5.1 Fetal Toxicity

Irbesartan can cause fetal harm when administered to a pregnant woman. Use of drugs that act on the renin-angiotensin system during the second and third trimesters of pregnancy reduces fetal renal function and increases fetal and neonatal morbidity and death. Resulting oligohydramnios can be associated with fetal lung hypoplasia and skeletal deformations. Potential neonatal adverse effects include skull hypoplasia, anuria, hypotension, renal failure, and death. When pregnancy is detected, discontinue irbesartan as soon as possible [see Use in Specific Populations (8.1)].

5.2 Hypotension in Volume or Salt-Depleted Patients

In patients with an activated renin-angiotensin system, such as volume or salt-depleted patients (e.g., those being treated with high doses of diuretics), symptomatic hypotension may occur after initialization of treatment with irbesartan. Correct volume or salt depletion prior to administration of irbesartan or use a lower starting dose [see Dosage and Administration (2.4)].

5.3 Impaired Renal Function

Changes in renal function including acute renal failure can be caused by drugs that inhibit the renin-angiotensin system. Patients whose renal function may depend in part on the activity of the renin-angiotensin system (e.g., patients with renal artery stenosis, chronic kidney disease, severe heart failure, or volume depletion) may be at particular risk of developing acute renal failure or death on irbesartan. Monitor renal function periodically in these patients. Consider withholding or discontinuing therapy in patients who develop a clinically significant decrease in renal function on irbesartan [see Drug Interactions (7.3)].

6 ADVERSE REACTIONS

The following important adverse reactions are described elsewhere in the labeling:

- Hypotension in Volume or Salt-Depleted Patients [see Warnings and Precautions (5.2)]
- Impaired Renal Function [see Warnings and Precautions (5.3)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice. The adverse reaction information from clinical trials does, however, provide a basis for identifying the adverse events that appear to be related to drug use and for approximating rates.

Hypertension

Irbesartan has been evaluated for safety in more than 4300 patients with hypertension and about 5000 subjects overall. This experience includes 1303 patients treated for over 6 months and 407 patients for 1 year or more.

In placebo-controlled clinical trials, the following adverse reactions were reported in at least 1% of patients treated with irbesartan (n=1965) and at a higher incidence versus placebo (n=641), excluding those too general to be informative and those not reasonably associated with the use of drug because they were associated with the condition being treated or are very common in the treated population, include: diarrhea (3% vs 2%), dyspepsia/heartburn (2% vs 1%), and fatigue (4% vs 3%).

Irbesartan use was not associated with an increased incidence of dry cough, as is typically associated with ACE inhibitor use. In placebo-controlled studies, the incidence of cough in irbesartan-treated patients was 2.8% versus 2.7% in patients receiving placebo.

Nephropathy in Type 2 Diabetic Patients

Hyperkalemia: In the Irbesartan Diabetic Nephropathy Trial (IDNT) (proteinuria \geq 900 mg/day, and serum creatinine ranging from 1.0 to 3.0 mg/dL), the percent of patients with potassium >6 mEq/L was 18.6% in the irbesartan group versus 6.0% in the placebo group. Discontinuations due to hyperkalemia in the irbesartan group were 2.1% versus 0.4% in the placebo group.

In IDNT, the adverse reactions were similar to those seen in patients with hypertension with the exception of an increased incidence of orthostatic symptoms which occurred more frequently in the irbesartan versus placebo group: dizziness (10.2% vs 6.0%), orthostatic dizziness (5.4% vs 2.7%) and orthostatic hypotension (5.4% vs 3.2%).

6.2 Postmarketing Experience

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

Urticaria; angioedema (involving swelling of the face, lips, pharynx, and/or tongue); anaphylactic reaction including anaphylactic shock; increased liver function tests; jaundice; hepatitis; hyperkalemia; anemia; thrombocytopenia; increased cpk; tinnitus; and hypoglycemia in diabetic patients.

7 DRUG INTERACTIONS

7.1 Agents Increasing Serum Potassium

Coadministration of irbesartan with other drugs that raise serum potassium levels may result in hyperkalemia, sometimes severe. Monitor serum potassium in such patients.

7.2 Lithium

Increases in serum lithium concentrations and lithium toxicity have been reported with concomitant use of irbesartan and lithium. Monitor lithium levels in patients receiving irbesartan and lithium.

7.3 Nonsteroidal Anti-inflammatory Drugs (NSAIDs) Including Selective Cyclooxygenase-2 Inhibitors (COX-2 Inhibitors)

In patients who are elderly, volume-depleted (including those on diuretic therapy), or with compromised renal function, coadministration of NSAIDs, including selective COX-2 inhibitors, with angiotensin II receptor antagonists (including irbesartan) may result in deterioration of renal function, including possible acute renal failure. These effects are usually reversible. Monitor renal function periodically in patients receiving irbesartan and NSAID therapy.

The antihypertensive effect of angiotensin II receptor antagonists, including irbesartan, may be attenuated by NSAIDs including selective COX-2 inhibitors.

7.4 Dual Blockade of the Renin-Angiotensin System (RAS)

Dual blockade of the RAS with angiotensin receptor blockers, ACE inhibitors, or aliskiren is associated with increased risks of hypotension, hyperkalemia, and changes in renal function (including acute renal failure) compared to monotherapy. Most patients receiving the combination of two RAS inhibitors do not obtain any additional benefit compared to monotherapy. In general, avoid combined use of RAS inhibitors. Closely monitor blood pressure, renal function and electrolytes in patients on irbesartan and other agents that affect the RAS.

Do not coadminister aliskiren with irbesartan in patients with diabetes. Avoid use of aliskiren with irbesartan in patients with renal impairment (GFR <60 mL/min).

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

<u>Risk Summary</u>

Irbesartan can cause fetal harm when administered to a pregnant woman. Use of drugs that act on the renin-angiotensin system during the second and third trimesters of

pregnancy reduces fetal renal function and increases fetal and neonatal morbidity and death [see Clinical Considerations]. Most epidemiologic studies examining fetal abnormalities after exposure to antihypertensive use in the first trimester have not distinguished drugs affecting the renin-angiotensin system from other antihypertensive agents. When pregnancy is detected, discontinue irbesartan as soon as possible.

All pregnancies have a background risk of birth defect, loss or other adverse outcomes regardless of drug exposure. 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 preeclampsia, gestational diabetes, premature delivery, and delivery complications (e.g., need for cesarean section and postpartum hemorrhage). Hypertension increases the fetal risk for intrauterine growth restriction and intrauterine death. Pregnant women with hypertension should be carefully monitored and managed accordingly.

Fetal/neonatal adverse reactions

Oligohydramnios in pregnant women who use drugs affecting the renin-angiotensin system in the second and third trimesters of pregnancy can result in the following: reduced fetal renal function leading to anuria and renal failure, fetal lung hypoplasia, skeletal deformations, including skull hypoplasia, hypotension, and death.

In the unusual case that there is no appropriate alternative to therapy with drugs affecting the renin-angiotensin system for a particular patient, apprise the mother of the potential risk to the fetus.

Perform serial ultrasound examinations to assess the intra-amniotic environment. Fetal testing may be appropriate, based on the week of pregnancy. Patients and physicians should be aware, however, that oligohydramnios may not appear until after the fetus has sustained irreversible injury. If oligohydramnios is observed, consider alternative treatment. Closely observe infants with histories of *in utero* exposure to irbesartan for hypotension, oliguria, and hyperkalemia and other symptoms of renal impairment. In neonates with a history of *in utero* exposure to irbesartan, if oliguria or hypotension occurs, direct attention toward support of blood pressure and renal perfusion. Exchange transfusion or dialysis may be required as means of reversing hypotension and/or substituting for disordered renal function.

<u>Data</u>

Irbesartan crosses the placenta in rats and rabbits. In female rats given irbesartan prior to mating though gestation and lactation at oral doses of 50, 180, or 650 mg/kg/day (1.6 to 21.1 times the maximum recommended human dose (MRHD) based on body surface area), fetuses examined on Gestation Day 20 showed increased incidences of hydroureter and renal pelvic cavitation and/or absence of renal papilla in all irbesartantreated groups. Subcutaneous edema also occurred in fetuses at maternal doses \geq 180 mg/kg/day (5.8 times the MRHD). These anomalies occurred when female rats received irbesartan from prior to mating through Day 20 of gestation but were not observed in pups postnatally in the same study, or when irbesartan was given to pregnant rats only during organogenesis (Gestation Day 6 through Gestation Day 15) at oral doses from 50 to 450 mg/kg/day (up to 14.6 times the MRHD). In addition, no adverse effects on kidney development were observed in pups from dams given irbesartan from Gestation Day 15 through Lactation Day 24 at doses of 50, 180, or 650 mg/kg/day (up to 21.1 times the MRHD). The observed effects are believed to be late gestational effects of the drug. Pregnant rabbits given oral doses of irbesartan of 30 mg/kg/day (1.9 times the MRHD based on body surface area) experienced a high rate of maternal mortality and abortion. Surviving females had a slight increase in early resorptions and a corresponding decrease in live fetuses.

Radioactivity was present in the rat and rabbit fetuses during late gestation following oral doses of radiolabeled irbesartan.

8.2 Lactation

There are no available data on the presence of irbesartan in human milk, effects on milk production, or the breastfed infant. Irbesartan or some metabolite of irbesartan is secreted in the milk of lactating rats [see Clinical Pharmacology (12.3)]. Because of the potential for adverse effects on the nursing infant, the use of irbesartan in breastfeeding women is not recommended.

8.4 Pediatric Use

Irbesartan, in a study at a dose of up to 4.5 mg/kg/day, once daily, did not appear to lower blood pressure effectively in pediatric patients ages 6 to 16 years.

Irbesartan has not been studied in pediatric patients less than 6 years old.

8.5 Geriatric Use

Of 4925 subjects receiving irbesartan in controlled clinical studies of hypertension, 911 (18.5%) were 65 years and over, while 150 (3.0%) were 75 years and over. No overall differences in effectiveness or safety were observed between these subjects and younger subjects, but greater sensitivity of some older individuals cannot be ruled out. *[See Clinical Pharmacology (12.3) and Clinical Studies (14.1).]*

10 OVERDOSAGE

No data are available in regard to overdosage in humans. However, daily doses of 900

mg for 8 weeks were well-tolerated. The most likely manifestations of overdosage are expected to be hypotension and tachycardia; bradycardia might also occur from overdose. Irbesartan is not removed by hemodialysis.

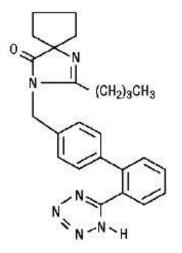
Acute oral toxicity studies with irbesartan in mice and rats indicated acute lethal doses were in excess of 2000 mg/kg, about 25-fold and 50-fold the MRHD (300 mg) based on body surface area, respectively.

11 DESCRIPTION

Irbesartan is an angiotensin II receptor (AT_1 subtype) antagonist.

Irbesartan is a non-peptide compound, chemically described as a 2-butyl-3-[*p*-(*o*-1*H*-tetrazol-5-ylphenyl)benzyl]-1,3-diazaspiro[4.4]non-1-en-4-one.

Its molecular formula is $C_{25}H_{28}N_6O$, and the structural formula:



Irbesartan USP is a white to off-white crystalline powder with a molecular weight of 428.5. It is a nonpolar compound with a partition coefficient (octanol/water) of 10.1 at pH of 7.4. Irbesartan is slightly soluble in alcohol and methylene chloride and practically insoluble in water.

Irbesartan tablets, USP are available for oral administration in unscored tablets containing 75 mg, 150 mg, or 300 mg of irbesartan USP. Inactive ingredients include: colloidal silicon dioxide, dibasic calcium phosphate dihydrate, hypromellose, microcrystalline cellulose, polysorbate, sodium starch glycolate, sodium stearyl fumarate, and talc.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Angiotensin II is a potent vasoconstrictor formed from angiotensin I in a reaction catalyzed by angiotensin-converting enzyme (ACE, kininase II). Angiotensin II is the primary vasoactive hormone of the renin-angiotensin system, and an important component in the pathophysiology of hypertension. It also stimulates aldosterone secretion by the adrenal cortex. Irbesartan blocks the vasoconstrictor and aldosteronesecreting effects of angiotensin II by selectively binding to the AT₁ angiotensin II receptor found in many tissues (e.g., vascular smooth muscle, adrenal gland). There is also an AT₂ receptor in many tissues, but it is not involved in cardiovascular homeostasis.

Irbesartan is a specific competitive antagonist of AT_1 receptors with a much greater affinity (more than 8500-fold) for the AT_1 receptor than for the AT_2 receptor and no agonist activity.

Blockade of the AT_1 receptor removes the negative feedback of angiotensin II on renin secretion, but the resulting increased plasma renin activity and circulating angiotensin II do not overcome the effects of irbesartan on blood pressure.

Irbesartan does not inhibit ACE or renin or affect other hormone receptors or ion channels known to be involved in the cardiovascular regulation of blood pressure and sodium homeostasis.

12.2 Pharmacodynamics

In healthy subjects, single oral irbesartan doses of up to 300 mg produced dosedependent inhibition of the pressor effect of angiotensin II infusions. Inhibition was complete (100%) 4 hours following oral doses of 150 mg or 300 mg and partial inhibition was sustained for 24 hours (60% and 40% at 300 mg and 150 mg, respectively).

In hypertensive patients, angiotensin II receptor inhibition following chronic administration of irbesartan causes a 1.5-fold to 2-fold rise in angiotensin II plasma concentration and a 2-fold to 3-fold increase in plasma renin levels. Aldosterone plasma concentrations generally decline following irbesartan administration, but serum potassium levels are not significantly affected at recommended doses.

In hypertensive patients, chronic oral doses of irbesartan (up to 300 mg) had no effect on glomerular filtration rate, renal plasma flow, or filtration fraction. In multiple dose studies in hypertensive patients, there were no clinically important effects on fasting triglycerides, total cholesterol or HDL-cholesterol concentrations. There was no effect on serum uric acid during chronic oral administration, and no uricosuric effect.

12.3 Pharmacokinetics

<u>Absorption</u>

The oral absorption of irbesartan is rapid and complete with an average absolute bioavailability of 60% to 80%. Following oral administration of irbesartan, peak plasma concentrations of irbesartan are attained at 1.5 to 2 hours after dosing. Food does not affect the bioavailability of irbesartan.

Irbesartan exhibits linear pharmacokinetics over the therapeutic dose range.

<u>Distribution</u>

Irbesartan is 90% bound to serum proteins (primarily albumin and α_1 -acid glycoprotein) with negligible binding to cellular components of blood. The average volume of distribution is 53 to 93 liters.

Studies in animals indicate that radiolabeled irbesartan weakly crosses the blood-brain barrier and placenta. Irbesartan is excreted in the milk of lactating rats.

<u>Elimination</u>

Total plasma and renal clearances are in the range of 157 to 176 mL/min and 3.0 to 3.5 mL/min, respectively. The terminal elimination half-life of irbesartan averages 11 to 15 hours. Steady-state concentrations are achieved within 3 days. Limited accumulation of irbesartan (<20%) is observed in plasma upon repeated once-daily dosing and is not clinically relevant.

Metabolism

Irbesartan is an orally active agent that does not require biotransformation into an active form. Irbesartan is metabolized via glucuronide conjugation and oxidation. Following oral or intravenous administration of ¹⁴C-labeled irbesartan, more than 80% of the circulating plasma radioactivity is attributable to unchanged irbesartan. The primary circulating metabolite is the inactive irbesartan glucuronide conjugate (approximately 6%). The remaining oxidative metabolites do not add appreciably to irbesartan's pharmacologic activity.

In vitro studies indicate irbesartan is oxidized primarily by CYP2C9; metabolism by CYP3A4 is negligible.

Excretion

Irbesartan and its metabolites are excreted by both biliary and renal routes. Following either oral or intravenous administration of ¹⁴C-labeled irbesartan, about 20% of radioactivity is recovered in the urine and the remainder in the feces, as irbesartan or irbesartan glucuronide.

Specific Populations

Sex

No sex-related differences in pharmacokinetics are observed in healthy elderly (age 65 to 80 years) or in healthy young (age 18 to 40 years) subjects. In studies of hypertensive patients, there is no sex difference in half-life or accumulation, but somewhat higher plasma concentrations of irbesartan are observed in females (11% to 44%). No sex-related dosage adjustment is necessary.

Geriatrics

In elderly subjects (age 65 to 80 years), irbesartan elimination half-life is not significantly altered, but AUC and C_{max} values are about 20% to 50% greater than those of young subjects (age 18 to 40 years). No dosage adjustment is necessary in the elderly.

Race/ethnicity

In healthy black subjects, irbesartan AUC values are approximately 25% greater than whites; there is no difference in C_{max} values.

Renal impairment

The pharmacokinetics of irbesartan is not altered in patients with renal impairment or in patients on hemodialysis. Irbesartan is not removed by hemodialysis. No dosage adjustment is necessary in patients with mild to severe renal impairment unless a patient with renal impairment is also volume depleted [see Warnings and Precautions (5.2) and Dosage and Administration (2.4)].

Hepatic insufficiency

The pharmacokinetics of irbesartan following repeated oral administration are not significantly affected in patients with mild to moderate cirrhosis of the liver. No dosage adjustment is necessary in patients with hepatic insufficiency.

Drug-Drug Interactions

In vitro studies show significant inhibition of the formation of oxidized irbesartan metabolites with the known cytochrome CYP2C9 substrates/inhibitors sulphenazole, tolbutamide and nifedipine. However, in clinical studies the consequences of concomitant irbesartan on the pharmacodynamics of warfarin were negligible. Based on *in vitro* data, no interaction would be expected with drugs whose metabolism is dependent upon cytochrome P450 isoenzymes 1A1, 1A2, 2A6, 2B6, 2D6, 2E1, or 3A4.

In separate studies of patients receiving maintenance doses of warfarin, hydrochlorothiazide, or digoxin, irbesartan administration for 7 days has no effect on the pharmacodynamics of warfarin (prothrombin time) or pharmacokinetics of digoxin. The pharmacokinetics of irbesartan are not affected by coadministration of nifedipine or hydrochlorothiazide.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No evidence of carcinogenicity was observed when irbesartan was administered at dosages of up to 500/1000 mg/kg/day (males/females, respectively) in rats and 1000 mg/kg/day in mice for up to 2 years. For male and female rats, 500 mg/kg/day provided an average systemic exposure to irbesartan ($AUC_{0-24 \text{ hour}}$, bound plus unbound) about 3 and 11 times, respectively, the average systemic exposure in humans receiving the maximum recommended dose (MRHD) of 300 mg irbesartan/day, whereas 1000 mg/kg/day (administered to females only) provided an average systemic exposure about 21 times that reported for humans at the MRHD. For male and female mice, 1000 mg/kg/day provided an exposure to irbesartan about 3 and 5 times, respectively, the human exposure at 300 mg/day.

Irbesartan was not mutagenic in a battery of *in vitro* tests (Ames microbial test, rat hepatocyte DNA repair test, V79 mammalian-cell forward gene-mutation assay). Irbesartan was negative in several tests for induction of chromosomal aberrations (*in vitro*—human lymphocyte assay; *in vivo*—mouse micronucleus study).

Irbesartan had no adverse effects on fertility or mating of male or female rats at oral dosages \leq 650 mg/kg/day, the highest dose providing a systemic exposure to irbesartan (AUC_{0-24 hour}, bound plus unbound) about 5 times that found in humans receiving the MRHD of 300 mg/day.

14 CLINICAL STUDIES

14.1 Hypertension

The antihypertensive effects of irbesartan were examined in 7 placebo-controlled 8- to 12-week trials in patients with baseline diastolic blood pressures of 95 to 110 mmHg. Doses of 1 to 900 mg were included in these trials in order to fully explore the dose-range of irbesartan. These studies allowed comparison of once or twice-daily regimens at 150 mg/day, comparisons of peak and trough effects, and comparisons of response by sex, age, and race. Two of the seven placebo-controlled trials identified above examined the antihypertensive effects of irbesartan and hydrochlorothiazide in combination.

The 7 studies of irbesartan monotherapy included a total of 1915 patients randomized to irbesartan (1 to 900 mg) and 611 patients randomized to placebo. Once-daily doses of 150 mg and 300 mg provided statistically and clinically significant decreases in systolic and diastolic blood pressure with trough (24 hours post-dose) effects after 6 to 12 weeks of treatment compared to placebo, of about 8 to 10/5 to 6 mmHg and 8 to 12/5 to 8 mmHg, respectively. No further increase in effect was seen at dosages greater than 300 mg. The dose-response relationships for effects on systolic and diastolic pressure are shown in Figures 1 and 2.

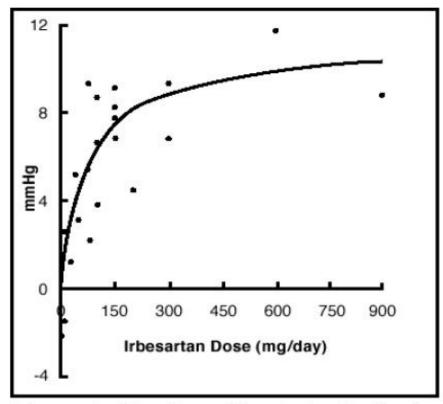


Figure 1. Placebo-subtracted reduction in trough SeSBP; integrated analysis

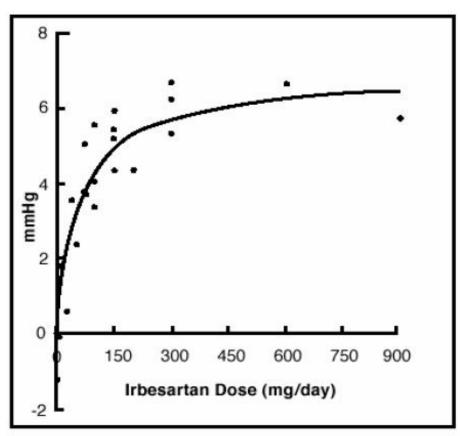


Figure 2. Placebo-subtracted reduction in trough SeDBP; integrated analysis

Once-daily administration of therapeutic doses of irbesartan gave peak effects at around 3 to 6 hours and, in one ambulatory blood pressure monitoring study, again around 14 hours. This was seen with both once-daily and twice-daily dosing. Trough-to-peak ratios for systolic and diastolic response were generally between 60% and 70%. In a continuous ambulatory blood pressure monitoring study, once-daily dosing with 150 mg gave trough and mean 24-hour responses similar to those observed in patients receiving twice-daily dosing at the same total daily dose.

In controlled trials, the addition of irbesartan to hydrochlorothiazide doses of 6.25 mg, 12.5 mg, or 25 mg produced further dose-related reductions in blood pressure similar to those achieved with the same monotherapy dose of irbesartan. HCTZ also had an approximately additive effect.

Analysis of age, sex, and race subgroups of patients showed that men and women, and patients over and under 65 years of age, had generally similar responses. Irbesartan was effective in reducing blood pressure regardless of race, although the effect was somewhat less in blacks (usually a low-renin population).

The effect of irbesartan is apparent after the first dose, and it is close to its full observed effect at 2 weeks. At the end of an 8-week exposure, about 2/3 of the antihypertensive effect was still present one week after the last dose. Rebound hypertension was not observed. There was essentially no change in average heart rate in irbesartan-treated patients in controlled trials.

14.2 Nephropathy in Type 2 Diabetic Patients

The Irbesartan Diabetic Nephropathy Trial (IDNT) was a randomized, placebo- and activecontrolled, double-blind, multicenter study conducted worldwide in 1715 patients with type 2 diabetes, hypertension (SeSBP >135 mmHg or SeDBP >85 mmHg), and nephropathy (serum creatinine 1.0 to 3.0 mg/dL in females or 1.2 to 3.0 mg/dL in males and proteinuria \geq 900 mg/day). Patients were randomized to receive irbesartan 75 mg, amlodipine 2.5 mg, or matching placebo once-daily. Patients were titrated to a maintenance dose of irbesartan 300 mg, or amlodipine 10 mg, as tolerated. Additional antihypertensive agents (excluding ACE inhibitors, angiotensin II receptor antagonists and calcium channel blockers) were added as needed to achieve blood pressure goal (\leq 135/85 or 10 mmHg reduction in systolic blood pressure if higher than 160 mmHg) for patients in all groups.

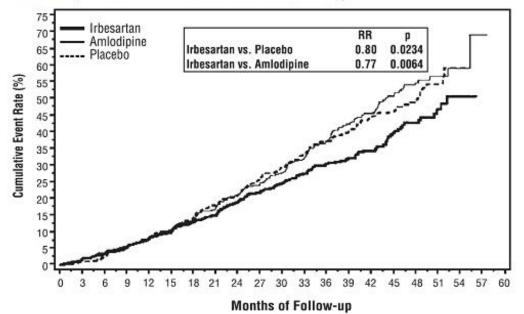
The study population was 66.5% male, 72.9% below 65 years of age, and 72% White (Asian/Pacific Islander 5.0%, Black 13.3%, Hispanic 4.8%). The mean baseline seated systolic and diastolic blood pressures were 159 mmHg and 87 mmHg, respectively. The patients entered the trial with a mean serum creatinine of 1.7 mg/dL and mean proteinuria of 4144 mg/day.

The mean blood pressure achieved was 142/77 mmHg for irbesartan, 142/76 mmHg for amlodipine, and 145/79 mmHg for placebo. Overall, 83.0% of patients received the target dose of irbesartan more than 50% of the time. Patients were followed for a mean duration of 2.6 years.

The primary composite endpoint was the time to occurrence of any one of the following events: doubling of baseline serum creatinine, end-stage renal disease (ESRD; defined by

serum creatinine ≥ 6 mg/dL, dialysis, or renal transplantation), or death. Treatment with irbesartan resulted in a 20% risk reduction versus placebo (p=0.0234) (see Figure 3 and Table 1). Treatment with irbesartan also reduced the occurrence of sustained doubling of serum creatinine as a separate endpoint (33%), but had no significant effect on ESRD alone and no effect on overall mortality (see Table 1).

Figure 3. IDNT: Kaplan-Meier Estimates Of Primary Endpoint (Doubling of Serum Creatinine, End-Stage Renal Disease or All-Cause Mortality)



The percentages of patients experiencing an event during the course of the study can be seen in Table 1 below:

Table 1: IDNT: Components of	f Primary	Composite	Endpoint
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	Irbesartan		npariso Placeb		Compai Amlo	rison w odipine	ith
	N=579	Placebo	Hazard	95% CI	Amlodipine	Hazard	95%
	(%)	N=569 (%)	Ratio		N=567 (%)	Ratio	CI
Primary				0.66 to			0.63
Composite	32.6	39.0	0.80	0.97	41.1	0.77	to
Endpoint				(p=0.0234)			0.93
Breakdown o	f first occur	ring even	it contrik	outing to pr	imary endpo	int	
2x creatinine	14.2	19.5			22.8		
ESRD	7.4	8.3			8.8		
Death	11.1	11.2			9.5		
Incidence of t	total events	over enti	re perio	d of follow-i	up		
2x creatinine	16.9	23.7	0.67	0.52 to 0.87	25.4	0.63	0.49 to 0.81
ESRD	14.2	17.8	0.77	0.57 to 1.03	18.3	0.77	0.57 to 1.03
Death	15.0	16.3	0.92	0.69 to ככ ו	14.6	1.04	0.77 to

The secondary endpoint of the study was a composite of cardiovascular mortality and morbidity (myocardial infarction, hospitalization for heart failure, stroke with permanent neurological deficit, amputation). There were no statistically significant differences among treatment groups in these endpoints. Compared with placebo, irbesartan significantly reduced proteinuria by about 27%, an effect that was evident within 3 months of starting therapy. Irbesartan significantly reduced the rate of loss of renal function (glomerular filtration rate), as measured by the reciprocal of the serum creatinine concentration, by 18.2%.

Table 2 presents results for demographic subgroups. Subgroup analyses are difficult to interpret, and it is not known whether these observations represent true differences or chance effects. For the primary endpoint, irbesartan's favorable effects were seen in patients also taking other antihypertensive medications (angiotensin II receptor antagonists, angiotensin-converting-enzyme inhibitors, and calcium channel blockers were not allowed), oral hypoglycemic agents, and lipid-lowering agents.

	Irbesartan	Comp	arison with P	lacebo
Baseline Factors	N=579 (%)	Placebo N=569 (%)	Hazard Ratio	95% Cl
Sex				
Male	27.5	36.7	0.68	0.53 to 0.88
Female	42.3	44.6	0.98	0.72 to 1.34
Race				
White	29.5	37.3	0.75	0.60 to 0.95
Non-White	42.6	43.5	0.95	0.67 to 1.34
Age (years)				
< 65	31.8	39.9	0.77	0.62 to 0.97
≥ 65	35.1	36.8	0.88	0.61 to 1.29

Table 2: IDNT: Primary Efficacy Outcome within Subgroups

16 HOW SUPPLIED/STORAGE AND HANDLING

Irbesartan Tablets USP, 75 mg are white to off-white, biconvex, oval shaped uncoated tablets debossed with 'T31' on one side and plain on other side.

Bottles of 30	NDC 65862-637-30
Bottles of 90	NDC 65862-637-90
Bottles of 500	NDC 65862-637-05
10 x 10 Unit-dose Tablets	NDC 65862-637-78

Irbesartan Tablets USP, 150 mg are white to off-white, biconvex, oval shaped

uncoated tablets debossed with 'T32' on one side and plain on other side.

Bottles of 30	NDC 65862-638-30
Bottles of 90	NDC 65862-638-90
Bottles of 500	NDC 65862-638-05
10 x 10 Unit-dose Tablets	NDC 65862-638-78

Irbesartan Tablets USP, 300 mg are white to off-white, biconvex, oval shaped uncoated tablets debossed with 'T33' on one side and plain on other side.

Bottles of 30	NDC 65862-639-30
Bottles of 90	NDC 65862-639-90
Bottles of 500	NDC 65862-639-05
10 x 10 Unit-dose Tablets	NDC 65862-639-78

Storage

Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.]

17 PATIENT COUNSELING INFORMATION

Pregnancy

Advise female patients of childbearing age about the consequences of exposure to irbesartan during pregnancy. Discuss treatment options with women planning to become pregnant. Patients should be asked to report pregnancies to their physicians as soon as possible.

Potassium Supplements

Advise patients receiving irbesartan not to use potassium supplements or salt substitutes containing potassium without consulting their healthcare provider [see Drug Interactions (7.1)].

Distributed by: **Aurobindo Pharma USA, Inc.** 279 Princeton-Hightstown Road East Windsor, NJ 08520

Manufactured by: **Aurobindo Pharma Limited** Hyderabad-500 032, India

PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 75 mg (90 Tablet Bottle)

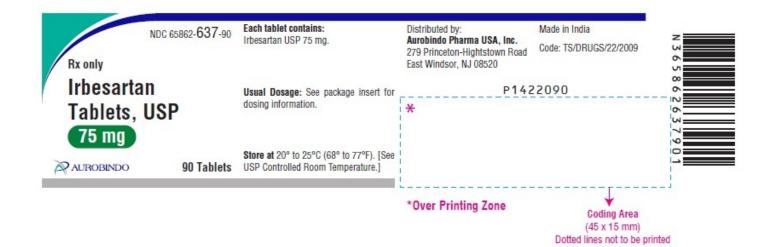
NDC 65862-637-90 Rx only

Irbesartan Tablets, USP

75 mg

AUROBINDO

90 Tablets



PACKAGE LABEL-PRINCIPAL DISPLAY PANEL -75 mg Blister Carton (10 x 10 Unit-dose)

NDC 65862-637-78 Rx only

Irbesartan Tablets, USP

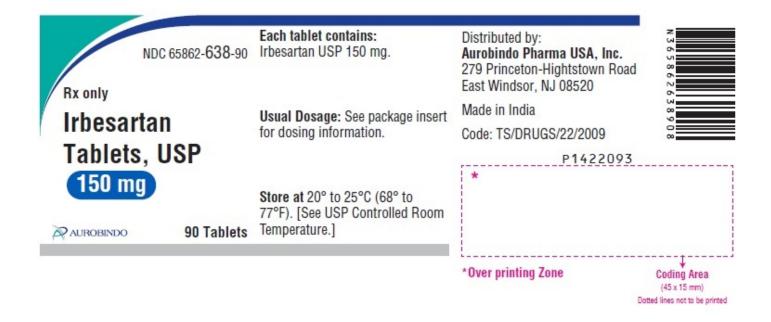
75 mg

AUROBINDO 100 Tablets (10 x 10 Unit-dose)



PACKAGE LABEL-PRINCIPAL DISPLAY PANEL- 150 mg (90 Tablet Bottle)

NDC 65862-638-90 Rx only Irbesartan Tablets, USP 150 mg



PACKAGE LABEL-PRINCIPAL DISPLAY PANEL -150 mg Blister Carton (10 x 10 Unit-dose)

NDC 65862-638-78 Rx only

Irbesartan Tablets, USP

150 mg

AUROBINDO 100 Tablets (10 x 10 Unit-dose)



PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 300 mg (90 Tablet Bottle) NDC 65862-639-90 Rx only Irbesartan Tablets, USP 300 mg



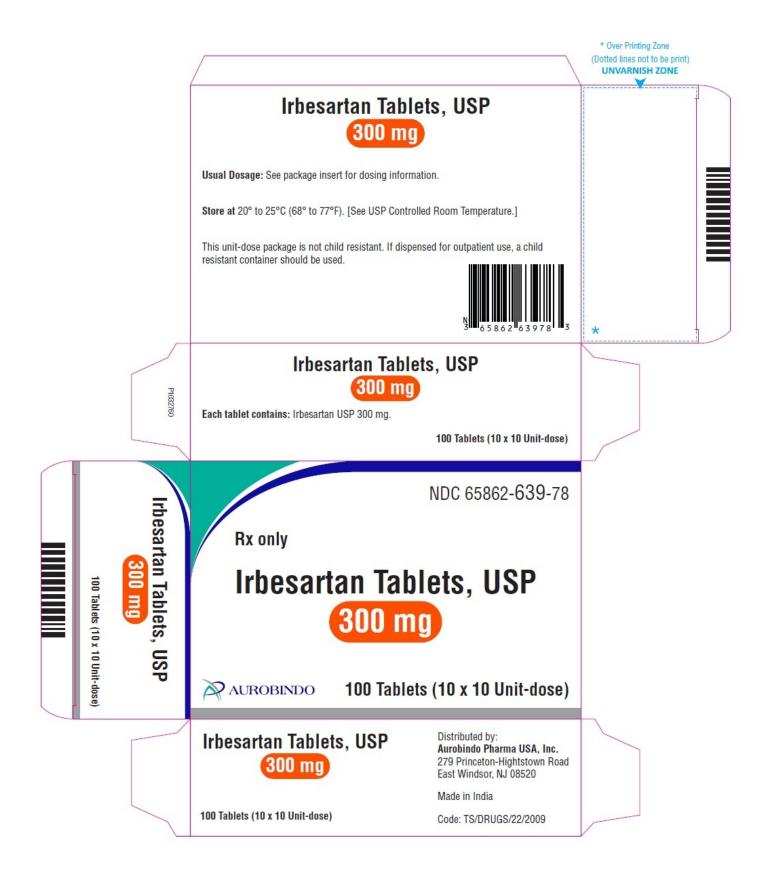
PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 300 mg Blister Carton (10 x 10 Unit-dose)

NDC 65862-639-78 Rx only

Irbesartan Tablets, USP

300 mg

AUROBINDO 100 Tablets (10 x 10 Unit-dose)



IRBESARTAN irbesartan tablet			
Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:65862-637

IRBESARTAN (UNII: j022756Z7N) (IRBESARTAN - UNII: j022756Z7N) IRBESARTAN 75 mg Inactive Ingredients Ingredient Name Strength SILICON DIOXIDE (UNII: ETJ7Z6XBU4) Inactive Ingredient Name Strength JBBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: OTTS297GEP) HyrROMELLOSE 2910 (G MPA.S) (UNII: R75537T04) HIRBESARTAN MICROCRYSTALLINE CELLULOSE (UNII: 60ZP39ZGBH) SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856)3G2A2) SOTE No score Shape OVAL (BICONVEX) Imprint Code T31 T31 Contains Potout Size Imprint Code T31 2 VOC:65862- SO IN 1	Active Ingredie	nt/Active Moiety			
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ANDA ANDA203081 09/27/2012				Marketing End Date	
	ANDA	ANDA203081	09/27/2012		

IRBESARTAN

Ρ	roduct Info	rmation				
Pı	roduct Type		HUMAN PRESCRIPTION DRUG	ltem Code (Source)	NDC	:65862-638
R	oute of Admir	istration	ORAL			
A	ctive Ingred	lient/Active	Moiety			
		Ingree	dient Name	Basis of Strer	ngth	Strength
R	BESARTAN (UNI	I: J0E2756Z7N) (IRBESARTAN - UNII:J0E2756Z7N)	IRBESARTAN		150 mg
In	active Ingr	edients				
			Ingredient Name			Strength
51		(UNII: ETJ7Z6XB	3U4)			
DI	BASIC CALCIUN	M PHOSPHATE	DIHYDRATE (UNII: O7TSZ97GEP)			
H١	PROMELLOSE	2910 (5 MPA.S) (UNII: R75537T0T4)			
			E (UNII: OP1R32D61U)			
	DLYSORBATE 8					
			YPE A POTATO (UNII: 5856J3G2A2)			
	ALC (UNII: 7SEV7		NII: 7CV7WJK4UI)			
P	roduct Char	acteristics				
	roduct Char		to Off-white)	Score	no	score
Co				Score Size		s core mm
Co Sł Fla	olor nape avor	WHITE (White				mm
Cc Sł Fla	olor nape	WHITE (White		Size	14	mm
Ca Sł Fla Ca	olor nape avor	WHITE (White		Size	14	mm
Ca Sł Fli Ca	olor nape avor ontains	WHITE (White OVAL (Bicony		Size	14 T3 Mark	mm
Ca Sh Fli Ca Pi	olor hape avor ontains ackaging	WHITE (White OVAL (Biconv	/ex)	Size Imprint Code Marketing Start	14 T3 Mark	mm 2 eting End
Ca Sh Fli Ca Pi #	olor hape avor ontains ackaging Item Code NDC:65862-	WHITE (White OVAL (Biconv Pa 30 in 1 BOTTLE Product	ckage Description	Size Imprint Code Marketing Start Date	14 T3 Mark	mm 2 eting End
C c Sh Fli C c Pi # 1	blor hape avor ontains ackaging Item Code NDC:65862- 638-90 NDC:65862- 638-05	WHITE (White OVAL (Bicony OVAL (Bicony Pa 30 in 1 BOTTLE Product 90 in 1 BOTTLE Product	ckage Description E; Type 0: Not a Combination	Size Imprint Code Marketing Start Date	14 T3 Mark	mm 2 eting End
C c S F C c P i # 1 2 3	blor hape avor ontains ackaging Item Code NDC:65862- 638-30 NDC:65862- 638-05 NDC:65862- 638-05 NDC:65862- 638-78	WHITE (White OVAL (Bicony OVAL (Bicony Pa 30 in 1 BOTTLE Product 90 in 1 BOTTLE Product 500 in 1 BOTTLE Product 10 in 1 CARTON	ckage Description E; Type 0: Not a Combination E; Type 0: Not a Combination E; Type 0: Not a Combination LE; Type 0: Not a Combination	Size Imprint Code Marketing Start Date 09/27/2012 09/27/2012	14 T3 Mark	mm 2 eting End
Ca Sh Fli Ca	A ckaging tem Code NDC:65862- 638-90 NDC:65862- 638-05 NDC:65862- 038-05 NDC:65862- 038-05	WHITE (White OVAL (Bicony OVAL (Bicony Pa 30 in 1 BOTTLE Product 90 in 1 BOTTLE Product 500 in 1 BOTTLE Product 10 in 1 CARTON	ckage Description E; Type 0: Not a Combination E; Type 0: Not a Combination E; Type 0: Not a Combination LE; Type 0: Not a Combination	Size Imprint Code Marketing Start Date 09/27/2012 09/27/2012	14 T3 Mark	mm 2 eting End
C c Sh Fli C c # 1 2 3 4 4	blor hape avor ontains ackaging item Code NDC:65862- 638-30 NDC:65862- 638-05 NDC:65862- 638-05 NDC:65862- 638-78 NDC:65862- 638-10	WHITE (White OVAL (Bicony 30 in 1 BOTTLE Product 90 in 1 BOTTLE Product 500 in 1 BOTTLE Product 10 in 1 CARTON 10 in 1 BLISTE Product	ckage Description E; Type 0: Not a Combination E; Type 0: Not a Combination E; Type 0: Not a Combination LE; Type 0: Not a Combination N R PACK; Type 0: Not a Combination	Size Imprint Code Marketing Start Date 09/27/2012 09/27/2012	14 T3 Mark	mm 2 eting End
C c S F C c # 1 2 3 4 4	A vor A	WHITE (White OVAL (Bicony Pa 30 in 1 BOTTLE Product 90 in 1 BOTTLE Product 500 in 1 BOTTLE Product 10 in 1 CARTON 10 in 1 BLISTE Product	ckage Description E; Type 0: Not a Combination E; Type 0: Not a Combination E; Type 0: Not a Combination LE; Type 0: Not a Combination N R PACK; Type 0: Not a Combination	Size Imprint Code Marketing Start Date 09/27/2012 09/27/2012	141 T33	mm 2 eting End

09/27/2012

	esartan tablet	•					
Ρ	roduct Info	rmation					
Ρ	roduct Type		HUMAN PRESCRIPTION DRUG	ltem (Code (Source)	ND	C:65862-639
R	oute of Admin	istration	ORAL				
_							
A	ctive Ingred		•				
		•	lient Name		Basis of Str	ength	-
IR	BESARTAN (UNII	: J0E2756Z7N) (I	RBESARTAN - UNII:J0E2756Z7N)		IRBESARTAN		300 mg
Ir	nactive Ingre	edients					
			Ingredient Name				Strength
SI	LICON DIOXIDE	(UNII: ETJ7Z6XB	U4)				
DI	BASIC CALCIUM	1 PHOSPHATE I	DIHYDRATE (UNII: O7TSZ97GEP)				
H١	PROMELLOSE 2	2910 (5 MPA.S) (UNII: R75537T0T4)				
М	ICROCRYSTALLI	INE CELLULOSE	(UNII: OP1R32D61U)				
PC	OLYSORBATE 80) (UNII: 60ZP392	ZG8H)				
			ZG8H) (PE A POTATO (UNII: 5856J3G2A2)				
s		GLYCOLATE TY	(PE A POTATO (UNII: 5856J3G2A2)				
so so	DDIUM STARCH	GLYCOLATE TY FUMARATE (U	(PE A POTATO (UNII: 5856J3G2A2)				
so so	DDIUM STARCH DDIUM STEARYL	GLYCOLATE TY FUMARATE (U	(PE A POTATO (UNII: 5856J3G2A2)				
SC SC T/	DDIUM STARCH DDIUM STEARYL ALC (UNII: 7SEV7J	GLYCOLATE TY FUMARATE (U 4R1U)	(PE A POTATO (UNII: 5856J3G2A2)				
SC SC T/	DDIUM STARCH DDIUM STEARYL	GLYCOLATE TY FUMARATE (U 4R1U)	(PE A POTATO (UNII: 5856J3G2A2)				
sa sa T/	DDIUM STARCH DDIUM STEARYL ALC (UNII: 7SEV7J	GLYCOLATE TY FUMARATE (U 4R1U)	(PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI)	Score		n	io score
sa sa T/ P Ca	DDIUM STARCH DDIUM STEARYL ALC (UNII: 7SEV7) roduct Char	GLYCOLATE TY FUMARATE (U 14R1U) acteristics	(PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI) to Off-white)		9		io score 7mm
so so T/ P Co SI	DDIUM STARCH DDIUM STEARYL ALC (UNII: 7SEV7) roduct Char	GLYCOLATE TY FUMARATE (U 4R1U) acteristics WHITE (White	(PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI) to Off-white)	Score Size	nt Code	1	
SC SC T/ P CC SI FI	DDIUM STARCH DDIUM STEARYL ALC (UNII: 7SEV7) roduct Char plor hape	GLYCOLATE TY FUMARATE (U 4R1U) acteristics WHITE (White	(PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI) to Off-white)	Score Size		1	.7mm
SC SC T P C S I FI	DDIUM STARCH DDIUM STEARYL ALC (UNII: 7SEV7) roduct Char plor hape avor	GLYCOLATE TY FUMARATE (U 4R1U) acteristics WHITE (White	(PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI) to Off-white)	Score Size		1	.7mm
SC SC T/ P CC SI FI CC	DDIUM STARCH DDIUM STEARYL ALC (UNII: 7SEV7) roduct Char plor hape avor ontains	GLYCOLATE TY FUMARATE (U 4R1U) acteristics WHITE (White	(PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI) to Off-white)	Score Size		1	.7mm
SC SC T P C S I FI C	DDIUM STARCH DDIUM STEARYL ALC (UNII: 7SEV7) roduct Char plor hape avor	GLYCOLATE TY FUMARATE (U 4R1U) acteristics WHITE (White	(PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI) to Off-white)	Score Size Imprin	nt Code	1 T	.7mm
SC SC T P C SI FI C C	odium starch odium steary alc (UNII: 7SEV7) roduct Char olor hape avor ontains ackaging	GLYCOLATE TY FUMARATE (U 14R1U) Cacteristics WHITE (White OVAL (Bicony	(PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI) to Off-white)	Score Size Imprin	nt Code keting Start	1 T	7mm 33 keting End
P C C SI FI C C P #	DDIUM STARCH DDIUM STEARYL ALC (UNII: 7SEV7) roduct Char blor hape avor ontains ackaging	GLYCOLATE TY FUMARATE (U 4R1U) acteristics WHITE (White OVAL (Biconv	(PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI) to Off-white) ex)	Score Size Imprin	nt Code keting Start Date	1 T	.7mm
P C S F C C P #	DDIUM STARCH DDIUM STEARYL ALC (UNII: 7SEV7) roduct Char blor hape avor ontains ackaging item Code NDC:65862-	GLYCOLATE TY FUMARATE (U 4R1U) acteristics WHITE (White OVAL (Biconv OVAL (Biconv Pa 30 in 1 BOTTLE Product	(PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI) to Off-white) ex) ckage Description	Score Size Imprin	keting Start Date	1 T	7mm 33 keting End
PCCSIFICC	Dium starch Dium steary ALC (UNII: 7SEV7) roduct Chara blor hape avor ontains ackaging item Code NDC:65862- 639-30 NDC:65862- 639-90 NDC:65862- 639-05	GLYCOLATE TY FUMARATE (U 4R1U) acteristics WHITE (White OVAL (Biconv OVAL (Biconv Pa 30 in 1 BOTTLE Product 90 in 1 BOTTLE Product	<pre>/PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI) to Off-white) ex) ckage Description ;; Type 0: Not a Combination</pre>	Score Size Impris	Keting Start Date 2012 2012	1 T	7mm 33 keting End
S(S(T/ PC SI FI C(P # 1 2	DDIUM STARCH DDIUM STEARYL ALC (UNII: 7SEV7) roduct Char blor hape avor ontains ackaging item Code NDC:65862- 639-30 NDC:65862- 639-90 NDC:65862-	GLYCOLATE TY FUMARATE (U 4R1U) acteristics WHITE (White OVAL (Biconv OVAL (Biconv OVAL (Biconv Pa 30 in 1 BOTTLE Product 90 in 1 BOTTLE Product 500 in 1 BOTTLE Product 10 in 1 CARTON	<pre>/PE A POTATO (UNII: 5856J3G2A2) NII: 7CV7WJK4UI) to Off-white) ex) ckage Description ;; Type 0: Not a Combination ;; Type 0: Not a Combination E; Type 0: Not a Combination</pre>	Score Size Imprid Mar 09/27/	keting Start 2012 2012 2012	1 T	7mm 33 keting End

Marketing Information					
Application Number or Monograph Citation	Marketing Start Date	Marketing End Date			
DA203081	09/27/2012				
ŀ	Application Number or Monograph Citation	Application Number or Monograph Marketing Start Citation Date			

Labeler - Aurobindo Pharma Limited (650082092)

Establishment				
Name	Address	ID/FEI	Business Operations	
Aurobindo Pharma Limited		650381903	ANALYSIS(65862-637, 65862-638, 65862-639) , MANUFACTURE(65862-637, 65862-638, 65862-639)	

Revised: 5/2024

Aurobindo Pharma Limited