

GLIPIZIDE- glipizide tablet, film coated, extended release Bryant Ranch Prepack

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

GLIPIZIDE extended-release tablets, for oral use
Initial U.S. Approval: 1994

INDICATIONS AND USAGE

Glipizide extended-release tablet is a sulfonylurea indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus

Limitations of Use: Not for treatment of type 1 diabetes or diabetic ketoacidosis (1)

DOSAGE AND ADMINISTRATION

- Recommended starting dose is 5 mg once daily. Dose adjustment can be made based on the patient's glycemic control.
Maximum recommended dose is 20 mg once daily (2.1).
- Administer with breakfast or the first meal of the day (2.1).
- For combination therapy with other blood-glucose-lowering agents, initiate the agent at the lowest recommended dose, and observe patients for hypoglycemia (2.2).

DOSAGE FORMS AND STRENGTHS

Tablets: 2.5 mg, 5 mg, 10 mg (3).

CONTRAINDICATIONS

- Known hypersensitivity to glipizide or any of the product's ingredients (4).
- Hypersensitivity to sulfonamide derivatives (4).

WARNINGS AND PRECAUTIONS

- Hypoglycemia: May be severe. Ensure proper patient selection, dosing, and instructions, particularly in at-risk populations (e.g., elderly, renally impaired) and when used with other anti-diabetic medications (5.1).
- Hemolytic Anemia: Can occur if glucose 6-phosphate dehydrogenase (G6PD) deficient. Consider a non-sulfonylurea alternative (5.2).
- Potential Increased Risk of Cardiovascular Mortality with Sulfonylureas: Inform patient of risks, benefits and treatment alternatives (5.3).
- Macrovascular Outcomes: No clinical studies have established conclusive evidence of macrovascular risk reduction with glipizide extended-release tablets or any other antidiabetic drug (5.4).

ADVERSE REACTIONS

Most common adverse reactions (incidence > 3%) are dizziness, diarrhea, nervousness, tremor, hypoglycemia and flatulence (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Rising Pharmaceuticals, Inc. at 1-866-562-4597 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Certain medications may affect glucose metabolism, requiring glipizide extended-release tablets dose adjustment and close monitoring of blood glucose (7.1).
- Miconazole: Monitor patients closely. Severe hypoglycemia can occur when glipizide tablets and oral miconazole are used concomitantly (7.2, 12.3).
- Fluconazole: Monitor patients closely. An increase in glipizide tablets AUC was seen after fluconazole administration (7.3, 12.3).
- Colesevelam: Glipizide extended-release tablets should be administered at least 4 hours prior to colesevelam (7.4, 12.3).

USE IN SPECIFIC POPULATIONS

- Geriatric, Hepatically Impaired Patients: At risk for hypoglycemia with glipizide extended-release tablets. Use caution in dose selection and titration, and monitor closely (8.5, 8.6).

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Glipizide extended-release tablets are indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus.

1.1 Limitations of Use

Glipizide extended-release tablets are not recommended for the treatment of type 1 diabetes mellitus or diabetic ketoacidosis.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosing

Glipizide extended-release tablets should be administered orally with breakfast or the first main meal of the day.

The recommended starting dose of glipizide extended-release tablets is 5 mg once daily. Start patients at increased risk for hypoglycemia (e.g. the elderly or patients with hepatic insufficiency) at 2.5 mg [*see Use in Specific Population (8.5, 8.6)*].

Dosage adjustment can be made based on the patient's glycemic control. The maximum recommended dose is 20 mg once daily.

Patients receiving immediate release glipizide may be switched to glipizide extended-release tablets once daily at the nearest equivalent total daily dose.

2.2 Use with Other Glucose Lowering Agents

When adding glipizide extended-release tablets to other anti-diabetic drugs, initiate glipizide extended-release tablets at 5 mg once daily. Start patients at increased risk for hypoglycemia at a lower dose.

When colesevelam is coadministered with glipizide extended-release tablets, maximum plasma concentration and total exposure to glipizide is reduced. Therefore, glipizide extended-release tablets should be administered at least 4 hours prior to colesevelam.

3 DOSAGE FORMS AND STRENGTHS

Glipizide Extended-Release Tablets:

2.5 mg tablets are blue and imprinted with " P " on one side.
2.5

5 mg tablets are white and imprinted with " P " on one side.
5

10 mg tablets are white and imprinted with " P " on one side.
10

4 CONTRAINDICATIONS

Glipizide is contraindicated in patients with:

- Known hypersensitivity to glipizide or any of the product's ingredients.
- Hypersensitivity to sulfonamide derivatives.

5 WARNINGS AND PRECAUTIONS

5.1 Hypoglycemia

All sulfonylurea drugs, including glipizide, are capable of producing severe hypoglycemia [*see Adverse Reactions (6)*]. Concomitant use of glipizide extended-release tablets with other anti-diabetic medication can increase the risk of hypoglycemia. A lower dose of glipizide extended-release tablets may be required to minimize the risk of hypoglycemia when combining it with other anti-diabetic medications.

Educate patients to recognize and manage hypoglycemia. When initiating and increasing glipizide extended-release tablets in patients who may be predisposed to hypoglycemia (e.g., the elderly, patients with renal impairment, patients on other anti-diabetic medications) start at 2.5 mg. Debilitated or malnourished patients, and those with adrenal, pituitary, or hepatic impairment are particularly susceptible to the hypoglycemic action of anti-diabetic medications. Hypoglycemia is also more likely to occur when caloric intake is deficient, after severe or prolonged exercise, or when alcohol is ingested.

The patient's ability to concentrate and react may be impaired as a result of hypoglycemia. Early warning symptoms of hypoglycemia may be different or less pronounced in patients with autonomic neuropathy, the elderly, and in patients who are taking beta-adrenergic blocking medications or other sympatholytic agents. These situations may result in severe hypoglycemia before the patient is aware of the hypoglycemia.

These impairments may present a risk in situations where these abilities are especially important, such as driving or operating other machinery. Severe hypoglycemia can lead to unconsciousness or convulsions and may result in temporary or permanent impairment of brain function or death.

5.2 Hemolytic Anemia

Treatment of patients with glucose 6-phosphate dehydrogenase (G6PD) deficiency with sulfonylurea agents, including glipizide extended-release tablets, can lead to hemolytic anemia. Avoid use of glipizide extended-release tablets in patients with G6PD deficiency. In post marketing reports, hemolytic anemia has also been reported in patients who did not have known G6PD deficiency.

5.3 Increased Risk of Cardiovascular Mortality with Sulfonylureas

The administration of oral hypoglycemic drugs has been reported to be associated with increased cardiovascular mortality as compared to treatment with diet alone or diet plus insulin. This warning is based on the study conducted by the University Group Diabetes Program (UGDP), a long-term prospective clinical trial designed to evaluate the effectiveness of glucose-lowering drugs in preventing or delaying vascular complications in patients with type 2 diabetes mellitus. The study involved 823 patients who were

randomly assigned to one of four treatment groups.

UGDP reported that patients treated for 5 to 8 years with diet plus a fixed dose of tolbutamide (1.5 grams per day) had a rate of cardiovascular mortality approximately 2½ times that of patients treated with diet alone. A significant increase in total mortality was not observed, but the use of tolbutamide was discontinued based on the increase in cardiovascular mortality, thus limiting the opportunity for the study to show an increase in overall mortality. Despite controversy regarding the interpretation of these results, the findings of the UGDP study provide an adequate basis for this warning. The patient should be informed of the potential risks and advantages of glipizide and of alternative modes of therapy.

Although only one drug in the sulfonylurea class (tolbutamide) was included in this study, it is prudent from a safety standpoint to consider that this warning may also apply to other oral hypoglycemic drugs in this class, in view of their close similarities in mode of action and chemical structure.

5.4 Macrovascular Outcomes

There have been no clinical studies establishing conclusive evidence of macrovascular risk reduction with glipizide extended-release tablets or any other anti-diabetic drug.

5.5 Gastrointestinal Obstruction

There have been reports of obstructive symptoms in patients with known strictures in association with the ingestion of another drug with this non-dissolvable extended-release formulation. Avoid use of glipizide extended-release tablets in patients with preexisting severe gastrointestinal narrowing (pathologic or iatrogenic).

6 ADVERSE REACTIONS

The following serious adverse reactions are discussed in more detail below and elsewhere in the labeling:

- Hypoglycemia [see *Warnings and Precautions* (5.1)]
- Hemolytic anemia [see *Warnings and Precautions* (5.2)]

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.

In clinical trials, 580 patients from 31 to 87 years of age received glipizide extended-release tablets in doses from 5 mg to 60 mg in both controlled and open trials. The dosages above 20 mg are not recommended dosages. In these trials, approximately 180 patients were treated with glipizide extended-release tablets for at least 6 months.

Table 1 summarizes the incidence of adverse reactions, other than hypoglycemia, that were reported in pooled double-blind, placebo-controlled trials in ≥3% of glipizide extended-release tablets-treated patients and more commonly than in patients who received placebo.

Table 1: Incidence (%) of Adverse Reactions Reported in $\geq 3\%$ of Patients Treated in Placebo-Controlled Clinical Trials and More Commonly in Patients Treated with glipizide extended-release tablets (Excluding Hypoglycemia)

Adverse Effect	Glipizide Extended-Release Tablets (%) (N=278)	Placebo (%) (N=69)
Dizziness	6.8	5.8
Diarrhea	5.4	0.0
Nervousness	3.6	2.9
Tremor	3.6	0.0
Flatulence	3.2	1.4

Hypoglycemia

Of the 580 patients that received glipizide extended-release tablets in clinical trials, 3.4% had hypoglycemia documented by a blood-glucose measurement <60 mg/dL and/or symptoms believed to be associated with hypoglycemia and 2.6% of patients discontinued for this reason. Hypoglycemia was not reported for any placebo patients.

Gastrointestinal Reactions

In clinical trials, the incidence of gastrointestinal (GI) side effects (nausea, vomiting, constipation, dyspepsia), occurred in less than 3% of glipizide extended-release tablets -treated patients and were more common in glipizide extended-release tablets -treated patients than those receiving placebo.

Dermatologic Reactions

In clinical trials, allergic skin reactions, i.e., urticaria occurred in less than 1.5% of treated patients and were more common in glipizide extended-release tablets treated patients than those receiving placebo. These may be transient and may disappear despite continued use of glipizide extended-release tablets; if skin reactions persist, the drug should be discontinued.

Laboratory Tests

Mild to moderate elevations of ALT, LDH, alkaline phosphatase, BUN and creatinine have been noted. The relationship of these abnormalities to glipizide is uncertain.

6.2 Postmarketing Experience

The following adverse reactions have been identified during post approval use of glipizide extended-release tablets. 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.

- Abdominal pain
- Cholestatic and hepatocellular forms of liver injury accompanied by jaundice
- Leukopenia, agranulocytosis, thrombocytopenia, hemolytic anemia [see *Warnings and Precautions* (5.2)], aplastic anemia, pancytopenia
- Hepatic porphyria and disulfiram-like reactions
- Hyponatremia and the syndrome of inappropriate antidiuretic hormone (SIADH) secretion

- Rash
- There have been reports of gastrointestinal irritation and gastrointestinal bleeding with use of another drug with this non-dissolvable extended release formulation.

7 DRUG INTERACTIONS

7.1 Drugs Affecting Glucose Metabolism

A number of medications affect glucose metabolism and may require glipizide extended-release tablets dose adjustment and close monitoring for hypoglycemia or worsening glycemic control.

The following are examples of medication that may increase the glucose lowering effect of glipizide extended-release tablets, increase the susceptibility to and/or intensity of hypoglycemia: antidiabetic agents, ACE inhibitors, angiotensin II receptor blocking agents, disopyramide, fibrates, fluoxetine, monoamine oxidase inhibitors, pentoxifylline, pramlintide, propoxyphene, salicylates, somatostatin analogs (e.g., octreotide), sulfonamide antibiotics, nonsteroidal anti-inflammatory agents, chloramphenicol, probenecid, coumarins, voriconazole, H₂ receptor antagonists, and quinolones. When these medications are administered to a patient receiving glipizide extended-release tablets, monitor the patient closely for hypoglycemia. When these medications are discontinued from a patient receiving glipizide extended-release tablets, monitor the patient closely for worsening glycemic control.

The following are examples of medication that may reduce the glucose-lowering effect of glipizide extended-release tablets, leading to worsening glycemic control: atypical antipsychotics (e.g., olanzapine and clozapine), corticosteroids, danazol, diuretics, estrogens, glucagon, isoniazid, niacin, oral contraceptives, phenothiazines, progestogens (e.g., in oral contraceptives), protease inhibitors, somatropin, sympathomimetic agents (e.g., albuterol, epinephrine, terbutaline), thyroid hormones, phenytoin, nicotinic acid, and calcium channel blocking drugs. When such drugs are administered to patients receiving glipizide extended-release tablets, monitor the patients closely for worsening glycemic control. When these medications are discontinued from patients receiving glipizide extended-release tablets, monitor the patients closely for hypoglycemia.

Alcohol, beta-blockers, clonidine, and reserpine may lead to either potentiation or weakening of the glucose-lowering effect. Increased frequency of monitoring may be required when glipizide extended-release tablet is co-administered with these drugs.

The signs of hypoglycemia may be reduced or absent in patients taking sympatholytic drugs such as beta-blockers, clonidine, guanethidine, and reserpine. Increased frequency of monitoring may be required when glipizide extended-release tablet is co-administered with these drugs.

7.2 Miconazole

Monitor patients closely for hypoglycemia when glipizide extended-release tablet is co-administered with miconazole. A potential interaction between oral miconazole and oral hypoglycemic agents leading to severe hypoglycemia has been reported [*see Clinical Pharmacology (12.3)*].

7.3 Fluconazole

Monitor patients closely for hypoglycemia when glipizide extended-release tablet is co-administered with fluconazole. Concomitant treatment with fluconazole increases plasma concentrations of glipizide, which may lead to hypoglycemia [see *Clinical Pharmacology* (12.3)].

7.4 Colesevelam

Glipizide extended-release tablets should be administered at least 4 hours prior to the administration of colesevelam. Colesevelam can reduce the maximum plasma concentration and total exposure of glipizide when the two are coadministered [see *Clinical Pharmacology* (12.3)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Available data from a small number of published studies and postmarketing experience with glipizide extended-release tablets use in pregnancy over decades have not identified any drug associated risks for major birth defects, miscarriage, or adverse maternal outcomes. However, sulfonylureas (including glipizide) cross the placenta and have been associated with neonatal adverse reactions such as hypoglycemia. Therefore, glipizide extended-release tablets should be discontinued at least two weeks before expected delivery (see *Clinical Considerations*). Poorly controlled diabetes in pregnancy is also associated with risks to the mother and fetus (see *Clinical Considerations*). In animal studies, there were no effects on embryofetal development following administration of glipizide to pregnant rats and rabbits during organogenesis at doses 833 times and 8 times the human dose based on body surface area, respectively. However, increased pup mortality was observed in rats administered glipizide from gestation day 15 throughout lactation at doses 2 times the maximum human dose based on body surface area (see *Data*).

The estimated background risk of major birth defects is 6-10% in women with pre-gestational diabetes with a HbA1c >7 and has been reported to be as high as 20-25% in women with HbA1c >10. The estimated background risk of miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively. Clinical Considerations

Disease-Associated Maternal and/or Embryo/Fetal Risk

Poorly-controlled diabetes in pregnancy increases the maternal risk for diabetic ketoacidosis, pre-eclampsia, miscarriage, preterm delivery, stillbirth, and delivery complications. Poorly controlled diabetes increases the fetal risk for major birth defects, stillbirth, and macrosomia related morbidity.

Fetal/Neonatal Adverse Reactions

Neonates of women with gestational diabetes who are treated with sulfonylureas during pregnancy may be at increased risk for neonatal intensive care admission and may develop respiratory distress, hypoglycemia, birth injury, and be large for gestational age. Prolonged severe hypoglycemia, lasting 4-10 days, has been reported in neonates born

to mothers receiving a sulfonylurea at the time of delivery and has been reported with the use of agents with a prolonged half-life. Observe newborns for symptoms of hypoglycemia and respiratory distress and manage accordingly.

Dose adjustments during pregnancy and the postpartum period

Due to reports of prolonged severe hypoglycemia in neonates born to mothers receiving a sulfonylurea at the time of delivery, glipizide extended-release tablets should be discontinued at least two weeks before expected delivery (see *Fetal/Neonatal Adverse Reactions*).

Data

Animal Data

In teratology studies in rats and rabbits, pregnant animals received daily oral doses of glipizide during the period of organogenesis at doses up to 2000 mg/kg/day and 10 mg/kg/day (approximately 833 and 8 times the human dose based on body surface area), respectively. There were no adverse effects on embryo-fetal development at any of the doses tested. In a peri- and postnatal study in pregnant rats, there was a reduced number of pups born alive following administration of glipizide from gestation day 15 throughout lactation through weaning at doses ≥ 5 mg/kg/day (about 2 times the recommended maximum human dose based on body surface area).

8.2 Lactation

Risk Summary

Breastfed infants of lactating women using glipizide extended-release tablets should be monitored for symptoms of hypoglycemia (see *Clinical Considerations*). Although glipizide was undetectable in human milk in one small clinical lactation study; this result is not conclusive because of the limitations of the assay used in the study. There are no data on the effects of glipizide on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for glipizide extended-release tablets and any potential adverse effects on the breastfed child from glipizide extended-release tablets or from the underlying maternal condition.

Clinical Considerations

Monitoring for adverse reactions

Monitor breastfed infants for signs of hypoglycemia (e.g., jitters, cyanosis, apnea, hypothermia, excessive sleepiness, poor feeding, seizures).

8.4. Pediatric Use

Safety and effectiveness in children have not been established.

8.5 Geriatric Use

There were no overall differences in effectiveness or safety between younger and older patients, but greater sensitivity of some individuals cannot be ruled out. Elderly patients are particularly susceptible to the hypoglycemic action of anti-diabetic agents.

Hypoglycemia may be difficult to recognize in these patients. Therefore, dosing should be conservative to avoid hypoglycemia [see *Dosage and Administration* (2.1), *Warnings and Precautions* (5.1) and *Clinical Pharmacology* (12.3)].

8.6 Hepatic Impairment

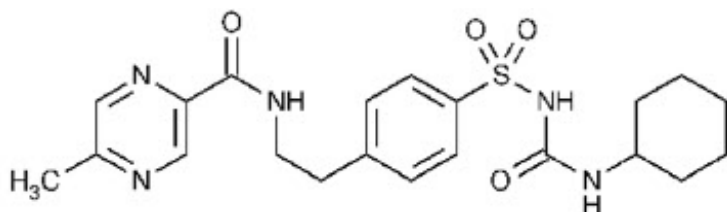
There is no information regarding the effects of hepatic impairment on the disposition of glipizide. However, since glipizide is highly protein bound and hepatic biotransformation is the predominant route of elimination, the pharmacokinetics and/or pharmacodynamics of glipizide may be altered in patients with hepatic impairment. If hypoglycemia occurs in such patients, it may be prolonged and appropriate management should be instituted [see *Dosage and Administration (2.1)*, *Warnings and Precautions (5.1)* and *Clinical Pharmacology (12.3)*].

10 OVERDOSAGE

Overdosage of sulfonylureas including glipizide can produce severe hypoglycemia. Mild hypoglycemic symptoms without loss of consciousness or neurologic findings should be treated with oral glucose. Severe hypoglycemic reactions with coma, seizure, or other neurological impairment are medical emergencies requiring immediate treatment. The patient should be treated with glucagon or intravenous glucose. Patients should be closely monitored for a minimum of 24 to 48 hours since hypoglycemia may recur after apparent clinical recovery. Clearance of glipizide from plasma may be prolonged in persons with liver disease. Because of the extensive protein binding of glipizide, dialysis is unlikely to be of benefit.

11 DESCRIPTION

Glipizide extended-release tablets contain glipizide which is an oral sulfonylurea. The Chemical Abstracts name of glipizide is 1-cyclohexyl-3-[[p-[2-(5-methylpyrazinecarboxamido) ethyl] phenyl]sulfonyl]urea. The molecular formula is $C_{21}H_{27}N_5O_4S$; the molecular weight is 445.55; the structural formula is shown below:



Glipizide is a whitish, odorless powder with a pKa of 5.9. It is insoluble in water and alcohols, but soluble in 0.1 N NaOH; it is freely soluble in dimethylformamide. Inert ingredients in the 2.5 mg, 5 mg and 10 mg formulations are: polyethylene oxide, hypromellose, magnesium stearate, sodium chloride, red ferric oxide, cellulose acetate, polyethylene glycol, Opadry® blue (OY-LS-20921) (hypromellose, lactose monohydrate, titanium dioxide, triacetin and FD&C blue#2) (2.5 mg tablets), Opadry® white (YS-2-7063) (hypromellose, titanium dioxide and polyethylene glycol) (5 mg and 10 mg tablet) and Opacode® Black Ink (S-1-277001) (shellac, ferrousferrous oxide, propylene glycol).

System Components and Performance

Glipizide extended-release tablets are similar in appearance to a conventional tablet. It consists, however, of an osmotically active drug core surrounded by a semipermeable membrane. The core itself is divided into two layers: an “active” layer containing the drug, and a “push” layer containing pharmacologically inert (but osmotically active) components. The membrane surrounding the tablet is permeable to water but not to

drug or osmotic excipients. As water from the gastrointestinal tract enters the tablet, pressure increases in the osmotic layer and “pushes” against the drug layer, resulting in the release of drug through a small, laser-drilled orifice in the membrane on the drug side of the tablet.

The function of the glipizide extended-release tablets depends upon the existence of an osmotic gradient between the contents of the bi-layer core and fluid in the GI tract. The biologically inert components of the tablet remain intact during GI transit and are eliminated in the feces as an insoluble shell.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Glipizide primarily lowers blood glucose by stimulating the release of insulin from the pancreas, an effect dependent upon functioning beta cells in the pancreatic islets. Sulfonylureas bind to the sulfonylurea receptor in the pancreatic beta-cell plasma membrane, leading to closure of the ATP-sensitive potassium channel, thereby stimulating the release of insulin.

12.2 Pharmacodynamics

The insulinotropic response to a meal is enhanced with glipizide extended-release tablets administration in diabetic patients. The postprandial insulin and C-peptide responses continue to be enhanced after at least 6 months of treatment. In two randomized, double-blind, dose-response studies comprising a total of 347 patients, there was no significant increase in fasting insulin in all glipizide extended-release tablets-treated patients combined compared to placebo, although minor elevations were observed at some doses.

In studies of glipizide extended-release tablets in subjects with type 2 diabetes mellitus, once daily administration produced reductions in hemoglobin A1c, fasting plasma glucose and postprandial glucose. The relationship between dose and reduction in hemoglobin A1c was not established, however subjects treated with 20 mg had a greater reduction in fasting plasma glucose compared to subjects treated with 5 mg.

12.3 Pharmacokinetics

Absorption

The absolute bioavailability of glipizide was 100% after single oral doses in patients with type 2 diabetes mellitus. Beginning 2 to 3 hours after administration of glipizide extended-release tablets, plasma drug concentrations gradually rise reaching maximum concentrations within 6 to 12 hours after dosing. With subsequent once daily dosing of glipizide extended-release tablets, plasma glipizide concentrations are maintained throughout the 24 hour dosing interval with less peak to trough fluctuation than that observed with twice daily dosing of immediate release glipizide.

The mean relative bioavailability of glipizide in 21 males with type 2 diabetes mellitus after administration of 20 mg glipizide extended-release tablets, compared to immediate release glipizide tablets (10 mg given twice daily), was 90% at steady-state. Steady-state plasma concentrations were achieved by at least the fifth day of dosing with glipizide extended-release tablets in 21 males with type 2 diabetes mellitus and patients younger

than 65 years. No accumulation of drug was observed in patients with type 2 diabetes mellitus during chronic dosing with glipizide extended-release tablets.

Administration of glipizide extended-release tablets with food has no effect on the 2 to 3 hour lag time in drug absorption. In a single dose, food effect study in 21 healthy male subjects, the administration of glipizide extended-release tablets immediately before a high fat breakfast resulted in a 40% increase in the glipizide mean C_{max} value, which was significant, but the effect on the AUC was not significant. There was no change in glucose response between the fed and fasting state. Markedly reduced GI retention times of the glipizide extended-release tablets over prolonged periods (e.g., short bowel syndrome) may influence the pharmacokinetic profile of the drug and potentially result in lower plasma concentrations.

In a multiple dose study in 26 males with type 2 diabetes mellitus, the pharmacokinetics of glipizide were linear with glipizide extended-release tablets in that the plasma drug concentrations increased proportionately with dose. In a single dose study in 24 healthy subjects, four 5-mg, two 10-mg, and one 20-mg glipizide extended-release tablets were bioequivalent. In a separate single dose study in 36 healthy subjects, four 2.5-mg glipizide extended-release tablets were bioequivalent to one 10-mg glipizide extended-release tablets.

Distribution

The mean volume of distribution was approximately 10 liters after single intravenous doses in patients with type 2 diabetes mellitus. Glipizide is 98–99% bound to serum proteins, primarily to albumin.

Metabolism

The major metabolites of glipizide are products of aromatic hydroxylation and have no hypoglycemic activity. A minor metabolite, an acetamino-ethyl benzene derivative, which accounts for less than 2% of a dose, is reported to have 1/10 to 1/3 as much hypoglycemic activity as the parent compound.

Elimination

Glipizide is eliminated primarily by hepatic biotransformation: less than 10% of a dose is excreted as unchanged drug in urine and feces; approximately 90% of a dose is excreted as biotransformation products in urine (80%) and feces (10%).

The mean total body clearance of glipizide was approximately 3 liters per hour after single intravenous doses in patients with type 2 diabetes mellitus. The mean terminal elimination half-life of glipizide ranged from 2 to 5 hours after single or multiple doses in patients with type 2 diabetes mellitus.

Specific Populations

Pediatric:

Studies characterizing the pharmacokinetics of glipizide in pediatric patients have not been performed.

Geriatric:

There were no differences in the pharmacokinetics of glipizide after single dose administration to older diabetic subjects compared to younger healthy subjects [*see Use in Specific Populations (8.5)*].

Renal Impairment:

The pharmacokinetics of glipizide has not been evaluated in patients with varying degree

of renal impairment. Limited data indicates that glipizide biotransformation products may remain in circulation for a longer time in subjects with renal impairment than that seen in subjects with normal renal function.

Hepatic Impairment:

The pharmacokinetics of glipizide has not been evaluated in patients with hepatic impairment.

Drug-drug Interactions

Miconazole

A potential interaction between oral miconazole and oral glipizide leading to severe hypoglycemia has been reported. Whether this interaction also occurs with the intravenous, topical, or vaginal preparations of miconazole is not known [see *Drug Interactions* (7.2)].

Fluconazole

Concomitant treatment with fluconazole increases plasma concentrations of glipizide. The effect of concomitant administration of Diflucan[®] (fluconazole) and glipizide tablets has been demonstrated in a placebo controlled crossover study in healthy volunteers. All subjects received glipizide tablets alone and following treatment with 100 mg of Diflucan[®] as a single daily oral dose for 7 days. The mean percentage increase in the glipizide AUC after fluconazole administration was 56.9% (range: 35 to 81%) [see *Drug Interactions* (7.3)].

Colesevelam

Colesevelam can reduce the maximum plasma concentration and total exposure of glipizide when the two are coadministered. In studies assessing the effect of colesevelam on the pharmacokinetics of glipizide ER in healthy volunteers, reductions in glipizide AUC_{0-∞} and C_{max} of 12% and 13%, respectively were observed when colesevelam was coadministered with glipizide ER. When glipizide ER was administered 4 hours prior to colesevelam, there was no significant change in glipizide AUC_{0-∞} or C_{max}, -4% and 0%, respectively [see *Drug Interactions* (7.4)].

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

A twenty month study in rats and an eighteen month study in mice at doses up to 75 times the maximum human dose revealed no evidence of drug-related carcinogenicity. Bacterial and *in vivo* mutagenicity tests were uniformly negative. Studies in rats of both sexes at doses up to 20 times the human dose based on body surface area, showed no effects on fertility.

15 REFERENCES

1. *Diabetes*, 19, SUPP. 2: 747-830, 1970

16 HOW SUPPLIED/STORAGE AND HANDLING

Glipizide extended-release tablets are supplied as 2.5 mg, 5 mg, and 10 mg round, biconvex tablets and imprinted with black ink as follows:

5 mg - White Round Biconvex - imprinted with “P 5” on one side.

- NDC 71335-1031-1: 90 TABLET in a BOTTLE
- NDC 71335-1031-2: 30 TABLET in a BOTTLE
- NDC 71335-1031-3: 60 TABLET in a BOTTLE
- NDC 71335-1031-4: 100 TABLET in a BOTTLE

2.5 mg - Blue Round Biconvex - imprinted with “P 2.5” on one side.

- NDC 71335-1042-1: 30 TABLET in a BOTTLE
- NDC 71335-1042-2: 60 TABLET in a BOTTLE

10 mg - White Round Biconvex - imprinted with “P 10” on one side.

- NDC 71335-1130-1: 30 TABLET in a BOTTLE
- NDC 71335-1130-2: 60 TABLET in a BOTTLE
- NDC 71335-1130-3: 100 TABLET in a BOTTLE
- NDC 71335-1130-4: 90 TABLET in a BOTTLE
- NDC 71335-1130-5: 180 TABLET in a BOTTLE

Recommended Storage: The tablets should be protected from moisture and humidity. Store at 20° to 25°C (68° to 77° F); [see USP Controlled Room Temperature].

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

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Inform patients of the potential adverse reactions of glipizide extended-release tablets including hypoglycemia. Explain the risks of hypoglycemia, its symptoms and treatment, and conditions that predispose to its development to patients and responsible family members. Also inform patients about the importance of adhering to dietary instructions, of a regular exercise program, and of regular testing of glycemic control.

Inform patients that glipizide extended-release tablets should be swallowed whole. Inform patients that they should not chew, divide or crush tablets and they may occasionally notice in their stool something that looks like a tablet. In the glipizide extended-release tablets, the medication is contained within a non-dissolvable shell that has been specially designed to slowly release the drug so the body can absorb it.

Pregnancy

Advise females of reproductive potential to inform their prescriber of a known or suspected pregnancy [see *Use in Specific Populations* (8.1)].

Lactation

Advise breastfeeding women taking glipizide extended-release tablets to monitor breastfed infants for signs of hypoglycemia (e.g., jitters, cyanosis, hypothermia, excessive sleepiness, poor feeding, seizures) [see *Use in Specific Populations* (8.2)].

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Manufactured by:

Unique Pharmaceutical Laboratories
(A Div. of J. B. Chemicals & Pharmaceuticals Ltd.),
Mumbai 400 030, India.

Distributed by:

Rising Pharmaceuticals, Inc.
Saddle Brook, NJ 07663

Oct. 2018

PATIENT INFORMATION**Glipizide Extended-Release Tablets (GLIP i zide)****What are Glipizide Extended-Release Tablets?**

- Glipizide extended-release tablet is a prescription medicine you take by mouth used along with diet and exercise to lower blood sugar in adults with type 2 diabetes mellitus.
- Glipizide extended-release tablet is not for people with type 1 diabetes or people with diabetic ketoacidosis.

It is not known if glipizide extended-release tablet is safe and effective in children under 18 years of age.

Who Should Not Take Glipizide Extended-Release Tablets?**Do not use glipizide extended-release tablets if you:**

- have a condition called diabetic ketoacidosis
- have ever had an allergic reaction to glipizide or any of the other ingredients in glipizide extended-release tablets. See the end of this Patient Information for a complete list of ingredients in glipizide extended-release tablets.

What should I tell my doctor before taking Glipizide Extended-Release Tablets?**Before you take Glipizide Extended-Release Tablets, tell your healthcare provider if you:**

- Have ever had a condition called diabetic ketoacidosis
- Have kidney or liver problems
- Have had a blockage or narrowing of your intestines due to illness or past surgery
- Have chronic (continuing) diarrhea
- Have glucose-6-phosphate dehydrogenase (G6PD) deficiency. This condition usually runs in families. People with G6PD deficiency who take glipizide extended-release tablet may develop hemolytic anemia (fast breakdown of red blood cells).
- Are pregnant or might be pregnant. It is not known if glipizide extended-release tablets will harm your unborn baby. If you are pregnant, talk to your healthcare provider about the best way to control your blood sugar while you are pregnant. You should not take glipizide extended-release tablets during the last two weeks of pregnancy.
- Are breastfeeding or plan to breastfeed. It is not known if glipizide passes into your breast milk. You and your healthcare provider should decide the best way to feed your baby during treatment with glipizide extended-release tablets.

Tell your doctor about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Glipizide extended-release tablets may affect the way other medicines work, and other medicines may affect how glipizide extended-release tablets work. Some medicines can affect how well glipizide extended-release tablet works or may affect your blood sugar level.

Know the medicines you take. Keep a list of them and show it to your healthcare provider and pharmacist when you get a new medicine.

How should I take Glipizide Extended-Release Tablets?

- Take glipizide extended-release tablet exactly as your healthcare provider tells you to take it.
- Your healthcare provider will tell you how much glipizide extended-release tablet to take and when to take it.
- Take glipizide extended-release tablet by mouth, 1 time each day with breakfast or your first meal of the day.
- Each glipizide extended-release tablet will release the medicine slowly over 24 hours. This is why you take it only 1 time each day.
- Swallow the glipizide extended-release tablet whole. **Do not break, crush, dissolve, chew, or cut** the tablet in half. This will damage the tablet and release too much medicine into your body at one time.
- When you take glipizide extended-release tablet you may see something in your stool that looks like a tablet. This is the empty shell from the tablet. It is normal for the empty shell to pass with your bowel movement after medicine has been absorbed by your body.
- It is important to take glipizide extended-release tablet every day to help keep your blood sugar level under good control. Your healthcare provider may change your dose depending on your blood sugar test results. If your blood sugar level is not under control, call your healthcare provider. Do not change your dose unless your healthcare provider tells you to.
- If you take too much glipizide extended-release tablets, call your healthcare provider or go to the nearest emergency room right away.
Your healthcare provider may tell you to take glipizide extended-release tablet with other diabetes medicines. Low blood sugar can happen more often when glipizide extended-release tablet is taken with other diabetes medicines. See **“What are the possible side effects of Glipizide Extended-Release Tablets?”**
- Check your blood sugar as your healthcare provider tells you to.
- Stay on your prescribed diet and exercise program while taking glipizide extended-release tablets.

What should I avoid while taking Glipizide Extended-Release Tablets?

- Do not drink alcohol while taking glipizide extended-release tablets. It can increase your chances of getting serious side effects.
- Do not drive, operate machinery, or do other dangerous activities until you know how glipizide extended-release tablet affects you.

What are the possible side effects of Glipizide Extended-Release Tablets?

Glipizide extended-release tablet can cause serious side effects, including:

- **Low blood sugar.** Glipizide extended-release tablet may cause low blood sugar.

Signs and symptoms of low blood sugar may include:

- a cold clammy feeling
- hunger
- unusual sweating
- fast heartbeat
- dizziness
- headache
- weakness
- blurred vision
- trembling
- slurred speech
- shakiness
- tingling in the lips or hands

If you have signs or symptoms of low blood sugar, eat or drink something with sugar in it right away. If you do not feel better or your blood sugar level does not go up, call your healthcare provider or go to the nearest emergency room.

The most common side effects of glipizide extended-release tablet include:

dizziness, diarrhea, nervousness, tremor, and gas.

These are not all the possible side effects of glipizide extended-release tablets. For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How to store Glipizide Extended-Release Tablets?

- Store glipizide extended-release tablets at room temperature between 20° to 25°C (68° to 77° F), [See USP controlled room temperature].
- Store glipizide extended-release tablets in a dry place, in its original container.

Keep glipizide extended-release tablets and all medicines out of reach of children.

General information about the safe and effective use of Glipizide Extended-Release Tablets.

Medicines are sometimes prescribed for purposes other than those listed in a patient information leaflet. Do not use glipizide extended-release tablet for a condition for which it was not prescribed. Do not give glipizide extended-release tablet to other people, even if they have the same symptoms you have. It may harm them.

This Patient Information summarizes the most important information about glipizide extended-release tablets. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about glipizide extended-release tablets that is written for healthcare professionals.

For more information about glipizide extended-release tablets please call 1-(866)-562-4597

What are the ingredients in Glipizide Extended-Release Tablets?

Active ingredient: glipizide

Inactive ingredients: polyethylene oxide, hypromellose, magnesium stearate, sodium chloride, red ferric oxide, cellulose acetate, polyethylene glycol, Opadry® blue (OY-LS-20921) (hypromellose, lactose monohydrate, titanium dioxide, triacetin and FD&C blue#2) (2.5 mg tablets) Opadry® white (YS-2-7063) (hypromellose, titanium dioxide and polyethylene glycol) (5 mg and 10 mg tablet) Opacode® Black Ink (S-1-277001) (shellac, ferrousferrous oxide, propylene glycol)

Manufactured by:

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Mumbai 400 030, India.

Distributed by:

Rising Pharmaceuticals, Inc.
Saddle Brook, NJ 07663

Oct. 2018

Glipizide Extended-Release 5 mg Tablets



GTIN 00371335103118
Lot 208820
Exp 12/20/2026
SN 0123456789

Each ER, film-coated tablet contains: 5.25 mg glipizIDE, USP to provide a 5 mg dose.

Dosage and Use: Scan Package Insert QR Code for prescribing information and Medication Guide.

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

Dispense in tight (USP), child-resistant containers.

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

NDC 71335-1031-1

glipiZIDE
Extended-Release
Tablets

5 mg



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

Rx only
90 Tablets

Manufactured by:
Unique Pharmaceutical
Laboratories



Package
Insert

Glipizide Extended-Release 2.5 mg Tablets



GTIN 00371335104214
Lot 208820
Exp 12/20/2026
SN 0123456789

Each ER, film-coated tablet contains: 2.63 mg glipizIDE, USP to provide a 2.5 mg dose.

Dosage and Use: Scan Package Insert QR Code for prescribing information and Medication Guide.

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

Dispense in tight (USP), child-resistant containers.

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

NDC 71335-1042-1

glipiZIDE
Extended-Release
Tablets

2.5 mg



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

Rx only
30 Tablets

Manufactured by:
Unique Pharmaceutical
Laboratories



Package
Insert

Glipizide Extended-Release 10 mg Tablets



GTIN 00371335113018
 Lot 208820
 Exp 12/20/2026
 SN 0123456789

Each ER, film-coated tablet contains: 10.50 mg glipiZIDE, USP to provide a 10 mg dose.

Dosage and Use: Scan Package Insert QR Code for prescribing information and Medication Guide.

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

Dispense in tight (USP), child-resistant containers.

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

NDC 71335-1130-1

glipiZIDE
Extended-Release
Tablets

10 mg



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

Rx only

30 Tablets

Manufactured by:
 Unique Pharmaceutical
 Laboratories



Package
 Insert

GLIPIZIDE

glipizide tablet, film coated, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1031(NDC:64980-280)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
GLIPIZIDE (UNII: X7WDT95N5C) (GLIPIZIDE - UNII:X7WDT95N5C)	GLIPIZIDE	5 mg

Inactive Ingredients

Ingredient Name	Strength
POLYETHYLENE GLYCOL 3350 (UNII: G2M7P15E5P)	
POLYETHYLENE OXIDE 200000 (UNII: 11628IH70O)	
POLYETHYLENE OXIDE 7000000 (UNII: G3MS6M810Y)	
HYPROMELLOSE 2910 (15 MPA.S) (UNII: 36SF2JZ0W)	
HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	
CELLULOSE ACETATE (UNII: 3J2P07GVB6)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
SHELLAC (UNII: 46N107B71O)	
FERROSO FERRIC OXIDE (UNII: XM0M87F357)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	

Product Characteristics

Color	WHITE	Score	no score
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Shape	ROUND	Size	8mm
Flavor		Imprint Code	P;5
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1031-1	90 in 1 BOTTLE; Type 0: Not a Combination Product	01/07/2019	
2	NDC:71335-1031-2	30 in 1 BOTTLE; Type 0: Not a Combination Product	01/07/2019	
3	NDC:71335-1031-3	60 in 1 BOTTLE; Type 0: Not a Combination Product	01/07/2019	
4	NDC:71335-1031-4	100 in 1 BOTTLE; Type 0: Not a Combination Product	01/07/2019	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA204720	04/24/2017	

GLIPIZIDE

glipizide tablet, film coated, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1042(NDC:64980-279)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
GLIPIZIDE (UNII: X7WDT95N5C) (GLIPIZIDE - UNII:X7WDT95N5C)	GLIPIZIDE	2.5 mg

Inactive Ingredients

Ingredient Name	Strength
POLYETHYLENE GLYCOL 3350 (UNII: G2M7P15E5P)	
POLYETHYLENE OXIDE 200000 (UNII: 11628IH70O)	
POLYETHYLENE OXIDE 7000000 (UNII: G3MS6M810Y)	
HYPROMELLOSE 2910 (15 MPA.S) (UNII: 36SFW2JZ0W)	
HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4)	
MAGNESIUM STEARATE (UNII: 70097M6I3O)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	
CELLULOSE ACETATE (UNII: 3J2P07GVB6)	

FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
TRIACETIN (UNII: XHX3C3X673)	
SHELLAC (UNII: 46N107B71O)	
FERROSOFERRIC OXIDE (UNII: XM0M87F357)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	

Product Characteristics

Color	BLUE	Score	no score
Shape	ROUND	Size	8mm
Flavor		Imprint Code	P;25
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1042-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	01/08/2019	
2	NDC:71335-1042-2	60 in 1 BOTTLE; Type 0: Not a Combination Product	01/08/2019	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA204720	04/24/2017	

GLIPIZIDE

glipizide tablet, film coated, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1130(NDC:64980-281)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
GLIPIZIDE (UNII: X7WDT95N5C) (GLIPIZIDE - UNII:X7WDT95N5C)	GLIPIZIDE	10 mg

Inactive Ingredients

Ingredient Name	Strength
POLYETHYLENE GLYCOL 3350 (UNII: G2M7P15E5P)	

POLYETHYLENE OXIDE 200000 (UNII: 11628IH70O)	
POLYETHYLENE OXIDE 7000000 (UNII: G3MS6M810Y)	
HYPROMELLOSE 2910 (15 MPA.S) (UNII: 36SFW2JZ0W)	
HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4)	
MAGNESIUM STEARATE (UNII: 70097M6I3O)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	
CELLULOSE ACETATE (UNII: 3J2P07GVB6)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
SHELLAC (UNII: 46N107B71O)	
FERROSOFERRIC OXIDE (UNII: XM0M87F357)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	

Product Characteristics

Color	WHITE	Score	no score
Shape	ROUND	Size	10mm
Flavor		Imprint Code	P;10
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1130-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	03/06/2019	
2	NDC:71335-1130-2	60 in 1 BOTTLE; Type 0: Not a Combination Product	03/06/2019	
3	NDC:71335-1130-3	100 in 1 BOTTLE; Type 0: Not a Combination Product	03/06/2019	
4	NDC:71335-1130-4	90 in 1 BOTTLE; Type 0: Not a Combination Product	03/06/2019	
5	NDC:71335-1130-5	180 in 1 BOTTLE; Type 0: Not a Combination Product	03/06/2019	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA204720	04/24/2017	

Labeler - Bryant Ranch Prepack (171714327)

Establishment

Name	Address	ID/FEI	Business Operations
Bryant Ranch Prepack		171714327	REPACK(71335-1031, 71335-1042, 71335-1130) , RELABEL(71335-1031, 71335-1042, 71335-1130)

