

**CARBIDOPA AND LEVODOPA- carbidopa and levodopa capsule, extended release**  
**REMEDYREPACK INC.**

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

**These highlights do not include all the information needed to use CARBIDOPA AND LEVODOPA EXTENDED-RELEASE CAPSULES safely and effectively. See full prescribing information for CARBIDOPA AND LEVODOPA EXTENDED-RELEASE CAPSULES.**

**CARBIDOPA and LEVODOPA extended-release capsules, for oral use**

**Initial U.S. Approval: 1975**

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**INDICATIONS AND USAGE**  
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Carbidopa and levodopa extended-release capsule is a combination of carbidopa (an aromatic amino acid decarboxylation inhibitor) and levodopa (an aromatic amino acid) indicated for the treatment of Parkinson's disease, post-encephalitic parkinsonism, and parkinsonism that may follow carbon monoxide intoxication or manganese intoxication ( 1)

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**DOSAGE AND ADMINISTRATION**  
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- Levodopa-naïve patients: Starting dose is 23.75 mg / 95 mg three times daily; may increase to 36.25 mg / 145 mg three times daily on the fourth day of treatment ( 2.1)
- See Table 1 for instructions for converting patients taking immediate-release carbidopa-levodopa to an initial dose of carbidopa and levodopa extended-release capsules. Dosages of carbidopa and levodopa extended-release capsules are not interchangeable with other carbidopa-levodopa products ( 2.2)
- The maximum recommended daily dose of carbidopa and levodopa extended-release capsules is 612.5 mg/2,450 mg ( 2.1, 2.2)
- Carbidopa and levodopa extended-release capsules may be taken with or without food; do not chew, divide or crush ( 2.4, 12.3)

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**DOSAGE FORMS AND STRENGTHS**  
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Extended-release capsules: Carbidopa and levodopa 23.75 mg/95 mg ( 3)

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**CONTRAINDICATIONS**  
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- Nonselective MAO inhibitors ( 4)

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**WARNINGS AND PRECAUTIONS**  
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- May cause falling asleep during activities of daily living ( 5.1)
- Avoid sudden discontinuation or rapid dose reduction to reduce the risk of withdrawal-emergent hyperpyrexia and confusion ( 5.2)
- Cardiovascular Events: Monitor patients with a history of cardiovascular disease ( 5.3)
- Hallucinations/Psychosis may occur ( 5.4)
- Impulse Control Disorders: Consider dose reduction or stopping carbidopa and levodopa extended-release capsules if occurs ( 5.5)
- May cause or exacerbate dyskinesia: Consider dose reduction ( 5.6)

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**ADVERSE REACTIONS**  
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- Early Parkinson's disease: Most common adverse reactions (incidence  $\geq$  5% and greater than placebo) are nausea, dizziness, headache, insomnia, abnormal dreams, dry mouth, dyskinesia, anxiety, constipation, vomiting, and orthostatic hypotension ( 6.1)
- Advanced Parkinson's disease: Most common adverse reactions (incidence  $\geq$  5% and greater than oral immediate-release carbidopa-levodopa) are nausea and headache ( 6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Zydus Pharmaceuticals (USA) Inc. at 1-877-993-8779 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

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**DRUG INTERACTIONS**  
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Iron salts and dopamine D2 antagonists including metoclopramide: May reduce the effectiveness of carbidopa and levodopa extended-release capsules ( 7.2, 7.3)

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**USE IN SPECIFIC POPULATIONS**  
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Pregnancy: Based on animal data, may cause fetal harm ( 8.1)

**See 17 for PATIENT COUNSELING INFORMATION.**

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

Carbidopa and levodopa extended-release capsules are indicated for the treatment of Parkinson's disease, post-encephalitic parkinsonism, and parkinsonism that may follow carbon monoxide intoxication or manganese intoxication.

### **2 DOSAGE AND ADMINISTRATION**

#### **2.1 Dosage in Patients Naïve to Levodopa Therapy**

The recommended starting dosage of carbidopa and levodopa extended-release capsules in levodopa-naïve patients is 23.75 mg/95 mg taken orally three times a day for the first 3 days. On the fourth day of treatment, the dosage of carbidopa and levodopa extended-release capsules may be increased to 36.25 mg/145 mg taken three times a day.

Based upon individual patient clinical response and tolerability, the carbidopa and levodopa extended-release capsules dose may be increased up to a maximum recommended dose of 97.5 mg/390 mg taken three times a day. The dosing frequency may be changed from three times a day to a maximum of five times a day if more frequent dosing is needed and if tolerated.

Maintain patients on the lowest dosage required to achieve symptomatic control and to minimize adverse reactions such as dyskinesia and nausea. The maximum recommended daily dose of carbidopa and levodopa extended-release capsules is 612.5 mg/2,450 mg.

#### **2.2 Converting from Immediate-Release Carbidopa-Levodopa to Carbidopa and Levodopa Extended-Release Capsules**

The dosages of other carbidopa and levodopa products are not interchangeable on a 1:1 basis with the dosages of carbidopa and levodopa extended-release capsules.

To convert patients from immediate-release carbidopa-levodopa to carbidopa and levodopa extended-release capsules, first calculate the patient's current total daily dose of levodopa. The starting total daily dose of carbidopa and levodopa extended-release capsules is as recommended in Table 1.

After conversion, any combination of the four carbidopa and levodopa extended-release capsules dosage strengths can be used to achieve an optimal dosing. Adjust the dose and dosing frequency as necessary to maintain patient tolerance and sufficient symptomatic control. Administration of concomitant Parkinson's disease medications

should remain stable while adjusting the carbidopa and levodopa extended-release capsules dose. In clinical trials, carbidopa and levodopa extended-release capsules were administered in divided doses of three to five times a day. The maximum recommended total daily dose of carbidopa and levodopa extended-release capsule is 612.5 mg/2,450 mg.

For patients currently treated with carbidopa and levodopa plus a catechol-O-methyl transferase (COMT) inhibitor (such as entacapone), the initial total daily dose of levodopa in carbidopa and levodopa extended-release capsules described in Table 1 may need to be increased.

Use of carbidopa and levodopa extended-release capsules in combination with other levodopa products has not been studied.

**Table 1**

**Conversion from Immediate-Release Carbidopa-Levodopa to Carbidopa and Levodopa Extended-Release Capsules**

<b>Total Daily Dose of Levodopa in Immediate-Release Carbidopa-Levodopa</b>	<b>Recommended Starting Dosage of Carbidopa and Levodopa Extended-Release Capsules</b>	
	<b>Total Daily Dose of Levodopa in Carbidopa and Levodopa Extended-Release Capsules</b>	<b>Carbidopa and Levodopa Extended-Release Capsules Dosing Regimen</b>
400 mg to 549 mg	855 mg	3 capsules carbidopa and levodopa extended-release capsules 23.75 mg/95 mg taken TID <sup>a</sup>
550 mg to 749 mg	1,140 mg	4 capsules carbidopa and levodopa extended-release capsules 23.75 mg/95 mg taken TID
750 mg to 949 mg	1,305 mg	3 capsules carbidopa and levodopa extended-release capsules 36.25 mg/145 mg taken TID
950 mg to 1,249 mg	1,755 mg	3 capsules carbidopa and levodopa extended-release capsules 48.75 mg/195 mg taken TID
Equal to or greater than 1,250 mg	2,340 mg or 2,205 mg	4 capsules carbidopa and levodopa extended-release capsules 48.75 mg/195 mg taken TID or 3 capsules carbidopa and levodopa extended-release capsules 61.25 mg/245 mg taken TID

<sup>a</sup>TID: three times a day

## **2.3 Discontinuation of Carbidopa And Levodopa Extended-Release Capsules**

Avoid sudden discontinuation or rapid dose reduction of carbidopa and levodopa extended-release capsules. The daily dose of carbidopa and levodopa extended-release capsules should be tapered at the time of treatment discontinuation [see *Warnings and Precautions ( 5.2)*].

## **2.4 Administration Information**

Swallow carbidopa and levodopa extended-release capsules whole with or without food. A high-fat, high-calorie meal may delay the absorption of levodopa by about 2 hours [see *Clinical Pharmacology ( 12.3)*].

Do not chew, divide or crush carbidopa and levodopa extended-release capsules. For patients who have difficulty swallowing intact capsules, administer carbidopa and levodopa extended-release capsules by carefully twisting apart both halves of the capsule. Sprinkle the entire contents of both halves of the capsule on a small amount of applesauce (1 to 2 tablespoons) and consume the mixture immediately. Do not store the drug/food mixture for future use.

## **3 DOSAGE FORMS AND STRENGTHS**

Carbidopa and Levodopa Extended-release Capsules, 23.75 mg/95 mg: blue and white capsule imprinted with IPX066 on the capsule cap and 95 on the capsule body.

## **4 CONTRAINDICATIONS**

Carbidopa and levodopa extended-release capsules are contraindicated in patients:

- Currently taking a nonselective monoamine oxidase (MAO) inhibitor (e.g., phenelzine and tranylcypromine) or have recently (within 2 weeks) taken a nonselective MAO inhibitor. Hypertension can occur if these drugs are used concurrently [see *Drug Interactions ( 7.1)*].

## **5 WARNINGS AND PRECAUTIONS**

### **5.1 Falling Asleep During Activities of Daily Living and Somnolence**

Patients treated with levodopa, a component of carbidopa and levodopa extended-release capsules, have reported falling asleep while engaged in activities of daily living, including the operation of motor vehicles, which sometimes resulted in accidents. Although many of these patients reported somnolence while on levodopa, some perceived that they had no warning signs (sleep attack), such as excessive drowsiness, and believed that they were alert immediately prior to the event. Some of these events have been reported more than 1 year after initiation of treatment.

It has been reported that falling asleep while engaged in activities of daily living usually occurs in a setting of pre-existing somnolence, although patients may not give such a history. For this reason, prescribers should reassess patients for drowsiness or sleepiness in carbidopa and levodopa extended-release capsules-treated patients, especially since some of the events occur well after the start of treatment. Prescribers should also be aware that patients may not acknowledge drowsiness or sleepiness until

directly questioned about drowsiness or sleepiness during specific activities.

Before initiating treatment with carbidopa and levodopa extended-release capsules, advise patients of the potential to develop drowsiness and specifically ask about factors that may increase the risk for somnolence with carbidopa and levodopa extended-release capsules such as concomitant sedating medications or the presence of a sleep disorder. Consider discontinuing carbidopa and levodopa extended-release capsules in patients who report significant daytime sleepiness or episodes of falling asleep during activities that require active participation (e.g., conversations, eating, etc.).

If a decision is made to continue carbidopa and levodopa extended-release capsules, patients should be advised not to drive and to avoid other potentially dangerous activities that might result in harm if the patients become somnolent. There is insufficient information to establish that dose reduction will eliminate episodes of falling asleep while engaged in activities of daily living.

## **5.2 Withdrawal-Emergent Hyperpyrexia and Confusion**

A symptom complex that resembles neuroleptic malignant syndrome (characterized by elevated temperature, muscular rigidity, altered consciousness, and autonomic instability), with no other obvious etiology, has been reported in association with rapid dose reduction, withdrawal of, or changes in dopaminergic therapy. Avoid sudden discontinuation or rapid dose reduction in patients taking carbidopa and levodopa extended-release capsules. If the decision is made to discontinue carbidopa and levodopa extended-release capsules, the dose should be tapered to reduce the risk of hyperpyrexia and confusion [*see Dosage and Administration ( 2.4)*].

## **5.3 Cardiovascular Ischemic Events**

Cardiovascular ischemic events have occurred in patients taking carbidopa and levodopa extended-release capsules. In a placebo controlled clinical study in patients with early Parkinson's disease, 7/289 (2.4%) of carbidopa and levodopa extended-release capsules-treated patients experienced cardiovascular ischemic adverse reactions compared to 1/92 (1.1%) of placebo-treated patients. In an active-controlled clinical study in patients with advanced Parkinson's disease, 3/450 (0.7%) of carbidopa and levodopa extended-release capsules-treated patients experienced cardiovascular ischemic adverse reactions compared to 0/471 oral immediate-release carbidopa-levodopa-treated patients. These patients all had a previous history of ischemic heart disease or risk factors for ischemic heart disease.

In patients with a history of myocardial infarction who have residual atrial, nodal, or ventricular arrhythmias, cardiac function should be monitored in an intensive cardiac care facility during the period of initial dosage adjustment.

## **5.4 Hallucinations/Psychosis**

There is an increased risk for hallucinations and psychosis in patients taking carbidopa and levodopa extended-release capsules. In a controlled clinical trial in patients with advanced Parkinson's disease, 9/201 (4%) of carbidopa and levodopa extended-release capsules-treated patients reported hallucinations or psychosis compared to 2/192 (1%) of oral immediate-release carbidopa-levodopa-treated patients.

Hallucinations present shortly after the initiation of therapy and may be responsive to

dose reduction in levodopa. Hallucinations may be accompanied by confusion, insomnia, and excessive dreaming. Abnormal thinking and behavior may present with one or more symptoms, including paranoid ideation, delusions, hallucinations, confusion, psychotic-like behavior, disorientation, aggressive behavior, agitation, and delirium.

Because of the risk of exacerbating psychosis, patients with a major psychotic disorder should not be treated with carbidopa and levodopa extended-release capsules. In addition, medications that antagonize the effects of dopamine used to treat psychosis may exacerbate the symptoms of Parkinson's disease and may decrease the effectiveness of carbidopa and levodopa extended-release capsules [see *Drug Interactions* ( 7.2)].

### **5.5 Impulse Control/Compulsive Behaviors**

Case reports suggest that patients can experience intense urges to gamble, increased sexual urges, intense urges to spend money, binge eating, and/or other intense urges, and the inability to control these urges while taking one or more of the medications, including carbidopa and levodopa extended-release capsules, that increase central dopaminergic tone and that are generally used for the treatment of Parkinson's disease. In some cases, although not all, these urges were reported to have stopped when the dose was reduced or the medication was discontinued.

Because patients may not recognize these behaviors as abnormal, it is important for prescribers to specifically ask patients or their caregivers about the development of new or increased gambling urges, sexual urges, uncontrolled spending or other urges while being treated with carbidopa and levodopa extended-release capsules. Consider a dose reduction or stopping the medication if a patient develops such urges while taking carbidopa and levodopa extended-release capsules.

### **5.6 Dyskinesia**

Carbidopa and levodopa extended-release capsules can cause dyskinesias that may require a dosage reduction of carbidopa and levodopa extended-release capsules or other medications used for the treatment of Parkinson's disease.

### **5.7 Peptic Ulcer Disease**

Treatment with carbidopa and levodopa extended-release capsules may increase the possibility of upper gastrointestinal hemorrhage in patients with a history of peptic ulcer.

### **5.8 Glaucoma**

Carbidopa and levodopa extended-release capsules may cause increased intraocular pressure in patients with glaucoma. Monitor intraocular pressure in patients with glaucoma after starting carbidopa and levodopa extended-release capsules.

## **6 ADVERSE REACTIONS**

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

- Falling Asleep During Activities of Daily Living and Somnolence [see *Warnings and Precautions* ( 5.1)]

- Withdrawal-Emergent Hyperpyrexia and Confusion [see Warnings and Precautions ( 5.2)]
- Cardiovascular Ischemic Events [see Warnings and Precautions ( 5.3)]
- Hallucinations/Psychosis [see Warnings and Precautions ( 5.4)]
- Impulse Control/Compulsive Behaviors [see Warnings and Precautions ( 5.5)]
- Dyskinesia [see Warnings and Precautions ( 5.6)]
- Peptic Ulcer Disease [see Warnings and Precautions ( 5.7)]
- Glaucoma [see Warnings and Precautions ( 5.8)]

## 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 clinical practice.

The safety population consisted of a total of 978 Parkinson's disease patients who received at least one dose of carbidopa and levodopa extended-release capsules, and had an average duration of exposure of 40 weeks.

### Adverse Reactions in Early Parkinson's Disease

In a placebo-controlled clinical study in patients with early Parkinson's disease (Study 1), the most common adverse reactions with carbidopa and levodopa extended-release capsules (in at least 5% of patients and more frequently than in placebo) were nausea, dizziness, headache, insomnia, abnormal dreams, dry mouth, dyskinesia, anxiety, constipation, vomiting, and orthostatic hypotension.

Table 2 lists adverse reactions occurring in at least 5% of carbidopa and levodopa extended-release capsules-treated patients and at a higher rate than placebo in Study 1.

**Table 2**

### Adverse Reactions in Study 1 in Patients with Early Stage Parkinson's Disease

	<b>Placebo (N=92) %</b>	<b>Carbidopa and Levodopa Extended- release Capsules 36.25 mg Carbidopa 145 mg Levodopa TID (N=87) %</b>	<b>Carbidopa and Levodopa Extended- release Capsules 61.25 mg Carbidopa 245 mg Levodopa TID (N=104) %</b>	<b>Carbidopa and Levodopa Extended- release Capsules 97.5 mg Carbidopa 390 mg Levodopa TID (N=98) %</b>
Nausea	9	14	19	20
Dizziness	5	9	19	12
Headache	11	7	13	17
Insomnia	3	2	9	6
Abnormal Dreams	0	2	6	5

Dry Mouth	1	3	2	7
Dyskinesia	0	2	4	5
Anxiety	0	2	3	5
Constipation	1	2	6	2
Vomiting	3	2	2	5
Orthostatic Hypotension	1	1	1	5

### *Adverse Reactions Leading to Discontinuation in Study 1*

In Study 1, 12% of patients discontinued carbidopa and levodopa extended-release capsules early due to adverse reactions; a higher proportion of patients in the 61.25 mg/245 mg carbidopa and levodopa extended-release capsules-treated group (14%) and in the 97.5 mg/390 mg carbidopa and levodopa extended-release capsules-treated group (15%) experienced adverse reactions leading to early discontinuation compared to (4%) in the placebo group. The most common adverse reactions resulting in early discontinuation were nausea, dizziness, and vomiting.

### **Adverse Reactions in Advanced Parkinson's Disease**

In an active-controlled clinical study in patients with advanced Parkinson's disease (Study 2), the most common adverse reactions with carbidopa and levodopa extended-release capsules that occurred during dose conversion or maintenance (in at least 5% of patients and more frequently than on oral immediate-release carbidopa-levodopa) were nausea and headache.

Table 3 lists adverse reactions occurring in at least 5% of carbidopa and levodopa extended-release capsules-treated patients and at a higher rate than oral immediate-release carbidopa-levodopa in Study 2.

**Table 3**

### **Adverse Reactions in Study 2 in Patients with Advanced Parkinson's Disease**

	<b>Carbidopa and Levodopa Extended-release Capsules</b>		<b>Immediate-Release Carbidopa-Levodopa</b>	
	<b>(N=201)</b>		<b>(N=192)</b>	
<b>Period</b>	<b>Dose Conversion <sup>a</sup></b>	<b>Maintenance</b>	<b>Dose Conversion <sup>a</sup></b>	<b>Maintenance</b>
	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>
Nausea	4	3	6	2
Headache	5	1	3	2

<sup>a</sup>All patients were converted to carbidopa and levodopa extended-release capsules in the open-label Dose Conversion period and then received randomized treatment during maintenance.

### *Adverse Reactions Leading to Discontinuation in Study 2*

In Study 2, 5% of patients discontinued treatment due to adverse reactions during

conversion to carbidopa and levodopa extended-release capsules. The common adverse reactions leading to discontinuation during dose conversion were dyskinesia, anxiety, dizziness, and on and off phenomenon.

## **6.2 Postmarketing Experience**

The following adverse reactions have been identified during post approval use of carbidopa and levodopa extended-release capsules. Because these reactions are reported voluntarily from a population of unknown size, it is not always possible to reliably estimate their frequency or establish causal relationship to carbidopa and levodopa extended-release capsules exposure.

**Psychiatric:** Suicide attempt, suicidal ideation.

## **7 DRUG INTERACTIONS**

### **7.1 Monoamine Oxidase (MAO) Inhibitors**

The use of nonselective MAO inhibitors with carbidopa and levodopa extended-release capsules is contraindicated [see *Contraindications ( 4)*]. Discontinue use of any nonselective MAO inhibitors at least two weeks prior to initiating carbidopa and levodopa extended-release capsules.

The use of selective MAO-B inhibitors (e.g., rasagiline and selegiline) with carbidopa and levodopa extended-release capsules may be associated with orthostatic hypotension. Monitor patients who are taking these drugs concurrently.

### **7.2 Dopamine D2 Receptor Antagonists and Isoniazid**

Dopamine D2 receptor antagonists (e.g., phenothiazines, butyrophenones, risperidone, metoclopramide) and isoniazid may reduce the effectiveness of levodopa. Monitor patients for worsening Parkinson's symptoms.

### **7.3 Iron Salts**

Iron salts or multivitamins containing iron salts can form chelates with levodopa and carbidopa and can cause a reduction in the bioavailability of carbidopa and levodopa extended-release capsules. If iron salts or multivitamins containing iron salts are co-administered with carbidopa and levodopa extended-release capsules, monitor patients for worsening Parkinson's symptoms.

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### ***Risk Summary***

There are no adequate data on the developmental risk associated with the use of carbidopa and levodopa extended-release capsules in pregnant women. In animal studies, carbidopa-levodopa has been shown to be developmentally toxic (including teratogenic effects) at clinically relevant doses (*see Data*).

The estimated background risk of major birth defects and miscarriage in 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% to 4% and 15% to 20%, respectively.

## **Data**

### *Animal Data*

When administered to pregnant rabbits throughout organogenesis, carbidopa-levodopa caused both visceral and skeletal malformation in fetuses at all doses and ratios of carbidopa-levodopa tested. No teratogenic effects were observed when carbidopa-levodopa was administered to pregnant mice throughout organogenesis.

There was a decrease in the number of live pups delivered by rats receiving carbidopa-levodopa during organogenesis.

## **8.2 Lactation**

### **Risk Summary**

Levodopa has been detected in human milk after administration of carbidopa-levodopa. There are no data on the presence of carbidopa in human milk, the effects of levodopa or carbidopa on the breastfed infant, or the effects on milk production. However, inhibition of lactation may occur because levodopa decreases secretion of prolactin in humans. Carbidopa is excreted in rat milk.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for carbidopa and levodopa extended-release capsules and any potential adverse effects on the breastfed infant from carbidopa and levodopa extended-release capsules or from the underlying maternal condition.

## **8.4 Pediatric Use**

Safety and effectiveness in pediatric patients have not been established.

## **8.5 Geriatric Use**

In controlled clinical trials of carbidopa and levodopa extended-release capsules, 418 patients were 65 years or older and no overall differences in safety and efficacy were observed between these patients and those under 65 years of age.

## **10 OVERDOSAGE**

In the active-controlled clinical study, a patient accidentally ingested 4.68 grams of carbidopa/18.7 grams of levodopa contained in carbidopa and levodopa extended-release capsules over a 2-day period. The patient experienced acute psychosis and dyskinesias. The patient recovered and completed the study on a reduced dose of carbidopa and levodopa extended-release capsules.

Based on the limited available information, the acute symptoms of levodopa/dopa decarboxylase inhibitor overdose can be expected to arise from dopaminergic overstimulation. Doses of a few grams may result in CNS disturbances, with an increasing likelihood of cardiovascular disturbance (e.g., hypotension, tachycardia) and more severe psychiatric problems at higher doses. An isolated report of

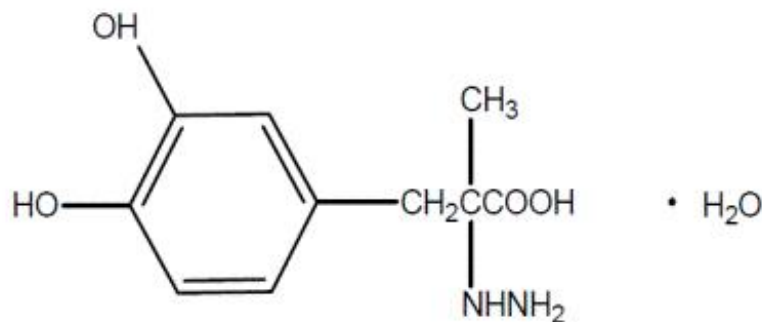
rhabdomyolysis and another of transient renal insufficiency suggest that levodopa overdosage may give rise to systemic complications, secondary to dopaminergic overstimulation.

Monitor patients and provide supportive care. Patients should receive electrocardiographic monitoring for the development of arrhythmias; if needed, appropriate antiarrhythmic therapy should be given. The possibility that the patient may have taken other drugs, increasing the risk of drug interactions (especially catechol-structured drugs) should be taken into consideration.

## 11 DESCRIPTION

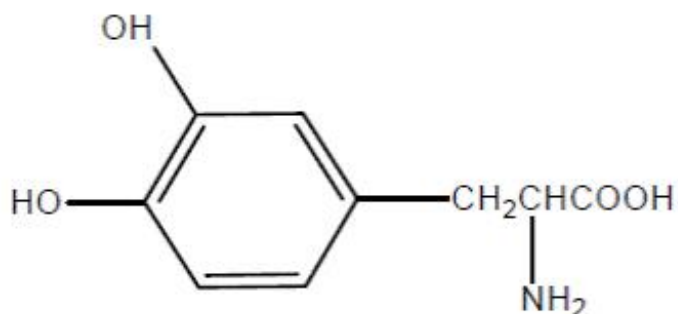
Carbidopa and levodopa extended-release capsule is a combination of carbidopa, an inhibitor of aromatic amino acid decarboxylation, and levodopa, an aromatic amino acid, in extended-release capsules for oral use.

Carbidopa is a white to creamy white powder, slightly soluble in water, with a molecular weight of 244.2. It is designated chemically as (-)-L- $\alpha$ -hydrazino-3, 4-dihydroxy- $\alpha$ -methylhydrocinnamic acid monohydrate. Its molecular formula is  $C_{10}H_{14}N_2O_4 \cdot H_2O$  and its structural formula is:



Capsule content is expressed in terms of anhydrous carbidopa, which has a molecular weight of 226.2.

Levodopa is a white to off-white, crystalline powder, slightly soluble in water, with a molecular weight of 197.2. It is designated chemically as (-)-3-(3, 4-Dihydroxyphenyl)-L-alanine. Its molecular formula is  $C_9H_{11}NO_4$  and its structural formula is:



Each extended-release capsule contains 23.75 mg carbidopa, USP and 95 mg levodopa USP, 36.25 mg carbidopa, USP and 145 mg levodopa USP, 48.75 mg carbidopa, USP and 195 mg levodopa USP, or 61.25 mg carbidopa, USP and 245 mg levodopa USP. The inactive ingredients are microcrystalline cellulose, mannitol, tartaric acid, ethyl cellulose, hypromellose, sodium starch glycolate, sodium lauryl sulfate, povidone, talc, methacrylic acid copolymers, triethyl citrate, croscarmellose sodium, and magnesium stearate.

All capsule shells contain gelatin and titanium dioxide. In addition, all blue capsule shells contain FD&C Blue #2 and yellow iron oxide. All yellow capsule shells contain yellow iron oxide.

All capsules imprinted with blue pharmaceutical ink contain FD&C Blue #2, butyl alcohol, dehydrated alcohol, isopropyl alcohol, propylene glycol, shellac and strong ammonia solution.

## **12 CLINICAL PHARMACOLOGY**

### **12.1 Mechanism of Action**

#### ***Carbidopa***

When levodopa is administered orally, it is rapidly decarboxylated to dopamine in extracerebral tissues so that only a small portion of a given dose is transported unchanged to the central nervous system. Carbidopa inhibits the decarboxylation of peripheral levodopa, making more levodopa available for delivery to the brain.

#### ***Levodopa***

Levodopa is the metabolic precursor of dopamine, does cross the blood-brain barrier, and presumably is converted to dopamine in the brain. This is thought to be the mechanism whereby levodopa relieves symptoms of Parkinson's disease.

### **12.2 Pharmacodynamics**

Because its decarboxylase inhibiting activity is limited to extracerebral tissues, administration of carbidopa with levodopa makes more levodopa available to the brain. The addition of carbidopa to levodopa reduces the peripheral effects (nausea, vomiting) due to decarboxylation of levodopa; however, carbidopa does not decrease the adverse reactions due to the central effects of levodopa.

Patients treated with levodopa therapy for Parkinson's disease may develop motor fluctuations characterized by end-of-dose failure, peak dose dyskinesia, 'on-off' phenomenon, and akinesia.

### **12.3 Pharmacokinetics**

#### ***Absorption***

##### ***Carbidopa***

Following oral dosing of carbidopa and levodopa extended-release capsules the maximum concentration occurred at approximately 3 hours. The bioavailability of carbidopa from carbidopa and levodopa extended-release capsules relative to immediate-release carbidopa-levodopa tablets was approximately 50%.

## *Levodopa*

The pharmacokinetics of carbidopa and levodopa extended-release capsules were evaluated following single-doses in healthy subjects and following single- and multiple-doses in patients with Parkinson's disease. The bioavailability of levodopa from carbidopa and levodopa extended-release capsules in patients was approximately 70% relative to immediate-release carbidopa-levodopa. For comparable doses, carbidopa and levodopa extended-release capsules results in a levodopa peak concentration ( $C_{max}$ ) that is 30% that of immediate-release carbidopa-levodopa. Following an initial peak at about one hour, plasma concentrations are maintained for about 4 to 5 hours before declining.

In patients with Parkinson's disease, multiple-dose pharmacokinetics was comparable to single-dose pharmacokinetics, i.e., there was minimal accumulation of levodopa. Variation in levodopa peak to trough plasma concentrations at steady-state defined as  $(C_{max}-C_{min})/C_{avg}$  was approximately 1.5 for carbidopa and levodopa extended-release capsules compared to approximately 3.2 for immediate-release levodopa.

### ***Distribution***

Carbidopa is approximately 36% bound to plasma proteins. Approximately 10% to 30% of levodopa is bound to plasma protein.

### ***Metabolism and Elimination***

#### *Carbidopa*

The terminal phase elimination half-life of carbidopa is approximately 2 hours.

Carbidopa is metabolized to two main metabolites:  $\alpha$ -methyl-3-methoxy-4-hydroxyphenylpropionic acid and  $\alpha$ -methyl-3,4-dihydroxy-phenylpropionic acid. These two metabolites are primarily eliminated in the urine unchanged or as a glucuronide. Unchanged carbidopa accounts for 30% of the total urinary excretion.

Peripheral dopa-decarboxylase may be saturated by carbidopa in other carbidopa-levodopa products at 70 mg per day to 100 mg per day, which produces equivalent exposure to 140 mg to 200 mg of carbidopa provided by carbidopa and levodopa extended-release capsules.

#### *Levodopa*

The terminal phase elimination half-life of levodopa, the active moiety of antiparkinsonian activity, is approximately 2 hours in the presence of carbidopa.

Levodopa is extensively metabolized to various metabolites. The two major metabolic pathways are decarboxylation by dopa decarboxylase (DDC) and O-methylation by catechol-O-methyltransferase (COMT).

### ***Dose Proportionality***

Carbidopa and levodopa extended-release capsules show approximately dose proportional pharmacokinetics for both carbidopa and levodopa over the levodopa dosage strength range of 95 mg to 245 mg.

### ***Effect of Food***

In healthy adults, oral administration of carbidopa and levodopa extended-release capsules after a high-fat, high-calorie meal reduced  $C_{max}$  approximately 21% and

increased AUC<sub>inf</sub> approximately 13% for levodopa compared to administration in the fasted state. There may be a delay by 2 hours in the absorption of levodopa when carbidopa and levodopa extended-release capsule is taken with a high-fat, high-calorie meal. In addition, absorption of levodopa may be decreased by a high protein meal.

### **Specific Populations**

#### *Elderly*

In pharmacokinetics studies following a single-dose of carbidopa and levodopa extended-release capsules, the peak concentrations of carbidopa and levodopa are generally similar between younger (45 to 60 years) and older (60 to 75 years) subjects.

#### *Gender*

In pharmacokinetics studies following a single-dose of carbidopa and levodopa extended-release capsules:

- Carbidopa

At comparable doses females are reported to have higher carbidopa peak concentrations and systemic exposure (approximately 33%) compared to males. Median time to peak concentration and terminal half-life are comparable between males and females.

- Levodopa

At comparable doses females are reported to have higher levodopa peak concentrations (approximately 23% to 33%) and systemic exposure (approximately 33% to 37%) compared to males. Median time to peak concentration and terminal half-life are comparable between males and females.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

#### ***Carcinogenesis***

In rats, oral administration of carbidopa-levodopa for two years resulted in no evidence of carcinogenicity.

#### ***Mutagenesis***

Carbidopa was mutagenic in the *in vitro* Ames test and in the *in vitro* mouse lymphoma tk assay but was negative in the *in vivo* mouse micronucleus assay.

#### ***Impairment of Fertility***

In reproduction studies, no effects on fertility were observed in rats receiving carbidopa-levodopa.

## **14 CLINICAL STUDIES**

### **14.1 Patients with Early Parkinson's Disease**

The effectiveness of carbidopa and levodopa extended-release capsules in patients with

early Parkinson's disease was established in a randomized, double-blind, placebo-controlled, fixed-dose, parallel-group, 30-week clinical trial (Study 1). Patients enrolled in Study 1 (n=381) were Hoehn and Yahr Stage I-III with a median disease duration of 1 year, and had limited or no prior exposure to levodopa and dopamine agonists. Patients continued taking concomitant selective monoamine oxidase B (MAO-B) inhibitors, amantadine, and anticholinergics provided the doses were stable for at least 4 weeks before screening. Eligible patients were randomized (1:1:1:1) to placebo or one of three fixed doses of carbidopa and levodopa extended-release capsules (carbidopa/levodopa doses of 36.25 mg/145 mg, 61.25 mg/245 mg, or 97.5 mg/390 mg, three times a day). Patients were not allowed to receive supplemental levodopa or catechol-O-methyl transferase (COMT) inhibitors. Patients receiving carbidopa and levodopa extended-release capsules initiated treatment at 23.75 mg/95 mg three times daily (TID). The dose was increased on Day 4 and the maximum study dose (97.5 mg/390 mg TID) was achieved by Day 22 .

The clinical outcome measure in Study 1 was the mean change from baseline in the sum of the Unified Parkinson's Disease Rating Scale (UPDRS) Part II (activities of daily living) score, and UPDRS Part III (motor score) for carbidopa and levodopa extended-release capsules, compared to placebo at Week 30 (or early termination). The mean score decrease (i.e., improvement) from baseline to Week 30 for each of the three carbidopa and levodopa extended-release capsules dosage groups was significantly greater than for placebo. The results of Study 1 are shown in Table 4.

**Table 4 Study 1: Change from Baseline in UPDRS Part II plus Part III Score at Week 30 (or at Early Termination) in Levodopa-Naïve Patients with Early Parkinson's Disease**

<b>Treatment</b>	<b>Mean UPDRS (Part II and Part III) Score <sup>a</sup></b>		
	<b>Baseline <sup>b</sup></b>	<b>Week 30</b>	<b>Change from Baseline at Week 30 <sup>c</sup></b>
Placebo	36.5	35.9	-0.6
Carbidopa and Levodopa Extended-release Capsules 36.25 mg / 145 mg TID	36.1	24.4	-11.7 <sup>d</sup>
Carbidopa and Levodopa Extended-release Capsules 61.25 mg / 245 mg TID	38.2	25.3	-12.9 <sup>d</sup>
Carbidopa and Levodopa Extended-release Capsules 97.5 mg / 390 mg TID	36.3	21.4	-14.9 <sup>d</sup>

<sup>a</sup>For the UPDRS, higher scores indicate greater severity of impairment

<sup>b</sup>All values based on 361 patients who had valid End-of-Study values

<sup>c</sup>Negative numbers indicate improvement as compared with the baseline value

<sup>d</sup>P-value is less than 0.05

## **14.2 Patients with Advanced Parkinson's Disease**

Study 2 was a 22-week trial consisting of a 3-week dose adjustment of current levodopa treatment prior to a 6-week conversion to carbidopa and levodopa extended-release capsules, which was followed by a 13-week, randomized, multicenter, double-blind, levodopa-containing active control, double-dummy, parallel group trial. The study enrolled 471 (393 randomized) patients (Hoehn & Yahr Stages I-IV) who had been maintained on a stable regimen of at least 400 mg per day of levodopa prior to entry into the trial. Patients were continued on concomitant dopamine agonists, selective monoamine oxidase B (MAO-B) inhibitors, amantadine, and anticholinergics provided the doses were stable for at least 4 weeks prior to screening. Patients were randomized to receive either carbidopa and levodopa extended-release capsules or immediate-release carbidopa-levodopa at the dose determined during the adjustment or conversion phases. Patients were not allowed to receive supplemental carbidopa-levodopa or catechol-O-methyl transferase (COMT) inhibitor products during the trial.

In Study 2, approximately 60% of patients required further up titration and approximately 16% of patients required down titration compared to the recommended starting dose of carbidopa and levodopa extended-release capsules. The final total daily dose of levodopa from carbidopa and levodopa extended-release capsules was approximately double that of the final total daily dose of levodopa from immediate-release tablets. The majority (88%) of patients in Study 2 received less than 2,400 mg; the median dose was 1,365 mg.

The clinical outcome measure in Study 2 was the percentage of "off" time during waking hours at Week 22 (or at early termination), as assessed by the patient's Parkinson's Disease Diary. The "off" time was significantly improved in carbidopa and levodopa extended-release capsules-treated patients compared to immediate-release carbidopa-levodopa-treated patients (Table 5). The decrease in "off" time observed with carbidopa and levodopa extended-release capsules occurred with a concomitant increase in "on time" without troublesome dyskinesia.

**Table 5 Study 2: Parkinson's Disease Diary Measures in Patients with Advanced Parkinson's Disease**

	<b>Baseline</b>	<b>Week 22 (or Early Termination)</b>
<b>Percentage of waking hours spent in "Off"</b>		
Carbidopa and Levodopa Extended-release Capsules	36.9%	23.8% *
Immediate-release carbidopa-levodopa	36%	29.8%
<b>"Off" Time (hours)</b>		
Carbidopa and Levodopa Extended-release Capsules	6.1 hours	3.9 hours *
Immediate-release carbidopa-levodopa	5.9 hours	4.9 hours
<b>"On" Time with no or non-troublesome dyskinesia (hours)</b>		
Carbidopa and Levodopa Extended-release Capsules	10 hours	11.8 hours *
Immediate-release carbidopa-levodopa	10.1 hours	10.9 hours

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\* P-value is less than 0.05

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

### **16.1 How Supplied**

Carbidopa and Levodopa Extended-release Capsules are available in the following strengths:

Carbidopa and Levodopa Extended-release Capsules, 23.75 mg/95 mg: blue and white capsule imprinted with IPX066 on the capsule cap and 95 on the capsule body and are supplied as follows:

NDC: 70518-4618-00

NDC: 70518-4618-01

OUTER PACKAGING: 50 in 1 BOX

PACKAGING: 1 in 1 POUCH

Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Store in a tightly closed container, protected from light and moisture. Dispense in a tight, light-resistant container as defined in the USP.

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Remedy Repack, Inc.

625 Kolter Dr. Suite #4 Indiana, PA 1-724-465-8762

### **16.2 Storage and Handling**

Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Store in a tightly closed container, protected from light and moisture. Dispense in a tight, light-resistant container as defined in the USP.

## **17 PATIENT COUNSELING INFORMATION**

### **Dosing Instructions**

- Advise patients to not take other carbidopa-levodopa preparations with carbidopa and levodopa extended-release capsules without consulting their healthcare provider [see *Dosage and Administration ( 2.2)*].
- Advise patients to call their healthcare provider before stopping carbidopa and levodopa extended-release capsules. Discontinue carbidopa and levodopa extended-release capsules slowly. Tell patients to call their healthcare provider if they develop withdrawal symptoms such as fever, confusion or severe muscle stiffness [see *Dosage and Administration ( 2.3)* and *Warnings and Precautions ( 5.2)*].
- Advise patients to swallow carbidopa and levodopa extended-release capsules whole, without chewing, dividing, or crushing [see *Dosage and Administration ( 2.4)*].
- For patients with difficulty swallowing, the entire contents of the carbidopa and levodopa extended-release capsule may be sprinkled on 1 to 2 tablespoons of

applesauce and should be taken immediately [see *Dosage and Administration ( 2.4)*] .

- Inform patients that a high fat, high calorie meal may delay the absorption of levodopa and the onset of action by 2 to 3 hours. For this reason, consideration should be given to taking the first dose of the day about 1 to 2 hours before eating [see *Dosage and Administration ( 2.4)* and *Clinical Pharmacology ( 12.3)*] .

### ***Falling Asleep***

Advise patients that certain side effects such as sleepiness and dizziness that have been reported with carbidopa and levodopa extended-release capsules may affect some patients' ability to drive and operate machinery safely [see *Warnings and Precautions ( 5.1)* and *Adverse Reactions ( 6.1)*] .

### ***Suicide Attempt and Suicidal Ideation***

Instruct patients, family members and caregivers to notify their healthcare provider if suicide attempt and/or suicidal ideation are experienced by patients using carbidopa and levodopa extended-release capsules [see *Adverse Reactions ( 6.2)*] .

### ***Hallucinations and Psychosis***

Inform patients that hallucinations can occur with levodopa products [see *Warnings and Precautions ( 5.4)*] .

### ***Impulse Control Disorder***

Inform patients of the potential for experiencing intense urges to gamble, increased sexual urges, and other intense urges and the inability to control these urges while taking one or more of the medications that increase central dopaminergic tone, that are generally used for the treatment of Parkinson's disease [see *Warnings and Precautions ( 5.5)*] .

### ***Dyskinesia***

Instruct patients to notify their healthcare provider if abnormal involuntary movements appear or get worse during treatment with carbidopa and levodopa extended-release capsules [see *Warnings and Precautions ( 5.6)*] .

### ***Hypotension and Syncope***

Advise patients that they may develop orthostatic hypotension with or without symptoms such as dizziness, nausea, syncope, and sweating [see *Adverse Reactions ( 6.1)*] . Advise patients to rise slowly after sitting or lying down, especially if they have been doing so for a prolonged period.

Advise patients of the possible additive sedative effects when taking other CNS depressants in combination with carbidopa and levodopa extended-release capsules.

### ***Pregnancy and Breastfeeding***

Advise patients to notify their healthcare provider if they become pregnant or intend to become pregnant during carbidopa and levodopa extended-release capsules therapy [see *Use in Specific Populations ( 8.1)*] .

Advise female patients to notify their physicians if they intend to breastfeed or are breastfeeding an infant [see *Use in Specific Populations ( 8.2)*] .

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**Repackaged and Distributed By:**

**Remedy Repack, Inc.**

**625 Kolter Dr. Suite #4 Indiana, PA 1-724-465-8762**

DRUG: Carbidopa and Levodopa

GENERIC: Carbidopa and Levodopa

DOSAGE: CAPSULE, EXTENDED RELEASE

ADMINISTRATION: ORAL

NDC: 70518-4618-0

NDC: 70518-4618-1

COLOR: white

SHAPE: CAPSULE

SCORE: No score

SIZE: 18 mm

IMPRINT: IPX066;95

PACKAGING: 1 in 1 POUCH

OUTER PACKAGING: 50 in 1 BOX

ACTIVE INGREDIENT(S):

- LEVODOPA 95mg in 1
- CARBIDOPA 23.75mg in 1

INACTIVE INGREDIENT(S):

- TRIETHYL CITRATE
- TARTARIC ACID
- TALC
- SODIUM STARCH GLYCOLATE TYPE A POTATO
- SODIUM LAURYL SULFATE
- SHELLAC
- PROPYLENE GLYCOL
- POVIDONE
- MICROCRYSTALLINE CELLULOSE
- METHACRYLIC ACID - METHYL METHACRYLATE COPOLYMER (1:2)
- METHACRYLIC ACID - METHYL METHACRYLATE COPOLYMER (1:1)
- MANNITOL
- MAGNESIUM STEARATE
- ISOPROPYL ALCOHOL
- HYPROMELLOSE 2910 (6 MPA.S)
- GELATIN

- FERRIC OXIDE YELLOW
- FD&C BLUE NO. 2
- ETHYLCELLULOSE
- CROSCARMELLOSE SODIUM
- BUTYL ALCOHOL
- AMMONIA
- TITANIUM DIOXIDE
- ALCOHOL

## Carbidopa/Levodopa Capsule

Extended Release

WARNING: Protect from light and moisture

MFG NDC: 70710-2139-01  
MFG: Zydus Pharm, Pennington, NJ 08534

Usual Dosage: See Insert

Keep this and all medication out of the reach of children  
Store at 20-25°C (68-77°F); excursions permitted to 15-30°C (59-86°F) [See USP]

**23.75mg/95 mg**

QTY: 50 Per Box

NDC #: 70518-4618-00

LOT #:

Expires:

Capsule WHITE/BLUE IPX088;95



**RX ONLY**

Repackaged By: RemedyRepack Inc.,  
Indiana, PA 15701, 724.465.8762



## Carbidopa/Levodopa Capsule

Extended Release

WARNING: Protect from light and moisture

MFG NDC: 70710-2139-01  
MFG: Zydus Pharm, Pennington, NJ 08534

Usual Dosage: See Insert

Keep this and all medication out of the reach of children  
Store at 20-25°C (68-77°F); excursions permitted to 15-30°C (59-86°F) [See USP]

**23.75mg/95 mg**

QTY: 1 Tablet

NDC #: 70518-4618-01

LOT #:

Expires:

Capsule WHITE/BLUE IPX088;95



**RX ONLY**

Repackaged By: RemedyRepack Inc.,  
Indiana, PA 15701, 724.465.8762



## CARBIDOPA AND LEVODOPA

carbidopa and levodopa capsule, extended release

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:70518-4618(NDC:70710-2139)
Route of Administration	ORAL		

## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>CARBIDOPA</b> (UNII: MNX7R8C5VO) (CARBIDOPA ANHYDROUS - UNII:KR87B45RGH)	CARBIDOPA ANHYDROUS	23.75 mg
<b>LEVODOPA</b> (UNII: 46627O600J) (LEVODOPA - UNII:46627O600J)	LEVODOPA	95 mg

## Inactive Ingredients

Ingredient Name	Strength
<b>ALCOHOL</b> (UNII: 3K9958V90M)	
<b>AMMONIA</b> (UNII: 5138Q19F1X)	
<b>BUTYL ALCOHOL</b> (UNII: 8PJ61P6TS3)	
<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	
<b>ETHYLCELLULOSE</b> (UNII: 7Z8S9VYZ4B)	
<b>FD&amp;C BLUE NO. 2</b> (UNII: L06K8R7DQK)	
<b>FERRIC OXIDE YELLOW</b> (UNII: EX438O2MRT)	
<b>GELATIN</b> (UNII: 2G86QN327L)	
<b>HYPROMELLOSE 2910 (6 MPA.S)</b> (UNII: 0WZ8WG20P6)	
<b>ISOPROPYL ALCOHOL</b> (UNII: ND2M416302)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6130)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>METHACRYLIC ACID - METHYL METHACRYLATE COPOLYMER (1:1)</b> (UNII: 74G4R6TH13)	
<b>METHACRYLIC ACID - METHYL METHACRYLATE COPOLYMER (1:2)</b> (UNII: 5KY68S2577)	
<b>MICROCRYSTALLINE CELLULOSE</b> (UNII: OP1R32D61U)	
<b>POVIDONE</b> (UNII: FZ989GH94E)	
<b>PROPYLENE GLYCOL</b> (UNII: 6DC9Q167V3)	
<b>SHELLAC</b> (UNII: 46N107B71O)	
<b>SODIUM LAURYL SULFATE</b> (UNII: 368GB5141J)	
<b>SODIUM STARCH GLYCOLATE TYPE A POTATO</b> (UNII: 5856J3G2A2)	
<b>TALC</b> (UNII: 7SEV7J4R1U)	
<b>TARTARIC ACID</b> (UNII: W4888I119H)	
<b>TITANIUM DIOXIDE</b> (UNII: 15FIX9V2JP)	
<b>TRIETHYL CITRATE</b> (UNII: 8Z96QXD6UM)	

## Product Characteristics

<b>Color</b>	white (WHITE) , blue (Blue)	<b>Score</b>	no score
<b>Shape</b>	CAPSULE (Oval)	<b>Size</b>	18mm
<b>Flavor</b>		<b>Imprint Code</b>	IPX066;95
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70518-4618-0	50 in 1 BOX	04/24/2026	
1	NDC:70518-4618-1	1 in 1 POUCH; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA authorized generic	NDA203312	04/24/2026	

**Labeler** - REMEDYREPACK INC. (829572556)

Revised: 4/2026

REMEDYREPACK INC.