
HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use RYTARY safely and effectively. See full prescribing information for RYTARY.
RYTARY (carbidopa and levodopa) extended-release capsules, for oral use Initial U.S. Approval: 1975
INDICATIONS AND USAGE RYTARY 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) DOSAGE AND ADMINISTRATION
 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 RYTARY. Dosages of RYTARY are not interchangeable with other carbidopa-levodopa products. (2.2) The maximum recommended daily dose of RYTARY is 612.5 mg/2,450 mg. (2.1, 2.2) RYTARY may be taken with or without food; do not chew, divide or crush. (2.4, 12.3)
Extended-release capsules: Carbidopa and levodopa 23.75 mg/95 mg, 36.25 mg/145 mg, 48.75 mg/195 mg, 61.25 mg/245 mg. (3)
Nonselective MAO inhibitors. (4)
 WARNINGS AND PRECAUTIONS 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 RYTARY if occurs. (5.5) May cause or exacerbate dyskinesia: Consider dose reduction. (5.6)
 ADVERSE REACTIONS Early Parkinson's disease: Most common adverse reactions (incidence ≥ 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 ≥ 5% and greater than oral immediate-release carbidopa-levodopa) are nausea and headache. (6.1)
To report SUSPECTED ADVERSE REACTIONS, contact Amneal Pharmaceuticals LLC at 1-877- 835-5472 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.
Iron salts and dopamine D2 antagonists including metoclopramide: May reduce the effectiveness of RYTARY. (7.2, 7.3)
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

RYTARY is 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 RYTARY 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 RYTARY may be increased to 36.25 mg/145 mg taken three times a day.

Based upon individual patient clinical response and tolerability, the RYTARY 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 RYTARY is 612.5 mg/2,450 mg.

2.2 Converting from Immediate-Release Carbidopa-Levodopa to RYTARY

The dosages of other carbidopa and levodopa products are not interchangeable on a 1:1 basis with the dosages of RYTARY.

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

After conversion, any combination of the four RYTARY 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 RYTARY dose. In clinical trials, RYTARY was administered in divided doses of three to five times a day. The maximum recommended total daily dose of RYTARY 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 RYTARY described in Table 1 may need to be increased.

Use of RYTARY in combination with other levodopa products has not been studied.

Table 1: Conversion from Immediate-Release Carbidopa-Levodopa to RYTARY

Total Daily	Recomme	ended Starting Dosage of RYTARY
Levodopa in Immediate- Release Carbidopa-	Total Daily Dose of Levodopa in RYTARY	RYTARY Dosing Regimen
400 mg to 549 mg	855 mg	3 capsules RYTARY 23.75 mg/95 mg taken TID ^a
550 mg to 749 mg	1,140 mg	4 capsules RYTARY 23.75 mg/95 mg taken TID
750 mg to 949 mg	1,305 mg	3 capsules RYTARY 36.25 mg/145 mg taken TID
950 mg to 1,249 mg	1,755 mg	3 capsules RYTARY 48.75 mg/195 mg taken TID
Equal to or greater than	2,340 mg or	4 capsules RYTARY 48.75 mg/195 mg taken TID or
1,250 mg	2,205 mg	3 capsules RYTARY 61.25 mg/245 mg taken TID
^a TID: three	times a day	/

2.3 Discontinuation of RYTARY

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

2.4 Administration Information

Swallow RYTARY 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 RYTARY capsules. For patients who have difficulty swallowing intact capsules, administer RYTARY 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

Extended-release capsules:

- 23.75 mg carbidopa and 95 mg levodopa: blue and white capsule imprinted with IPX066 on the capsule cap and 95 on the capsule body.
- 36.25 mg carbidopa and 145 mg levodopa: blue and light blue capsule imprinted with IPX066 on the capsule cap and 145 on the capsule body.
- 48.75 mg carbidopa and 195 mg levodopa: blue and yellow capsule imprinted with IPX066 on the capsule cap and 195 on the capsule body.
- 61.25 mg carbidopa and 245 mg levodopa: blue capsule imprinted with IPX066 on the capsule cap and 245 on the capsule body.

4 CONTRAINDICATIONS

RYTARY is 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 RYTARY, 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 RYTARY-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 RYTARY, advise patients of the potential to develop drowsiness and specifically ask about factors that may increase the risk for somnolence with RYTARY such as concomitant sedating medications or the presence of a sleep disorder. Consider discontinuing RYTARY 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 RYTARY, 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 RYTARY. If the decision is made to discontinue RYTARY, 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 RYTARY. In a placebo controlled clinical study in patients with early Parkinson's disease, 7/289 (2.4%) of RYTARY-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 RYTARY-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 RYTARY. In a controlled clinical trial in patients with advanced Parkinson's disease, 9/201 (4%) of RYTARY-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 RYTARY. 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 RYTARY [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 RYTARY, 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 RYTARY. Consider a dose reduction or stopping the medication if a patient develops such urges while taking RYTARY.

5.6 Dyskinesia

RYTARY can cause dyskinesias that may require a dosage reduction of RYTARY or other medications used for the treatment of Parkinson's disease.

5.7 Peptic Ulcer Disease

Treatment with RYTARY may increase the possibility of upper gastrointestinal hemorrhage in patients with a history of peptic ulcer.

5.8 Glaucoma

RYTARY may cause increased intraocular pressure in patients with glaucoma. Monitor intraocular pressure in patients with glaucoma after starting RYTARY.

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 RYTARY, 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 RYTARY (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 RYTARY-treated patients and at a higher rate than placebo in Study 1.

Table 2: Adverse Reactions in Study 1 in Patients with Early StageParkinson's Disease

Placebo	RYTARY 36.25 mg Carbidopa 145 mg Levodopa TID	RYTARY 61.25 mg Carbidopa 245 mg Levodopa TID	RYTARY 97.5 mg Carbidopa 390 mg Levodopa TID
(N=92	(N=87)	(N=104)	(N=98)

	%	%	%	%
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 RYTARY early due to adverse reactions; a higher proportion of patients in the 61.25 mg/245 mg RYTARY-treated group (14%) and in the 97.5 mg/390 mg RYTARY-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 RYTARY 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 RYTARY-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 AdvancedParkinson's Disease

		ARY 201)	Immediate-Release Carbidopa-Levodop (N=192)			
Period	Dose Conversion ^a %		Dose Conversion ^a %	Maintenance %		
Nausea	4	3	6	2		
Headache	5	1	3	2		
			RY in the open-label Dose Co uring maintenance.	onversion period and		

Adverse Reactions Leading to Discontinuation in Study 2

In Study 2, 5% of patients discontinued treatment due to adverse reactions during conversion to RYTARY. The common adverse reactions leading to discontinuation during dose conversion were dyskinesia, anxiety, dizziness, and on and off phenomenon.

6.2 Post-marketing Experience

The following adverse reactions have been identified during post approval use of RYTARY. 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 RYTARY exposure.

Psychiatric: Suicide attempt, suicidal ideation.

7 DRUG INTERACTIONS

7.1 Monoamine Oxidase (MAO) Inhibitors

The use of nonselective MAO inhibitors with RYTARY is contraindicated [see Contraindications (4)]. Discontinue use of any nonselective MAO inhibitors at least two weeks prior to initiating RYTARY.

The use of selective MAO-B inhibitors (e.g., rasagiline and selegiline) with RYTARY 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 RYTARY. If iron salts or multivitamins containing iron salts are co-administered with RYTARY, monitor patients for worsening Parkinson's symptoms.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

<u>Risk Summary</u>

There are no adequate data on the developmental risk associated with the use of RYTARY 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.

<u>Data</u>

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 carbidopalevodopa was administered to pregnant mice throughout organogenesis.

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

8.2 Lactation

<u>Risk Summary</u>

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 RYTARY and any potential adverse effects on the breastfed infant from RYTARY 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 RYTARY, 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 RYTARY over a 2-day period. The patient experienced acute psychosis and dyskinesias. The patient recovered and completed the study on a reduced dose of RYTARY.

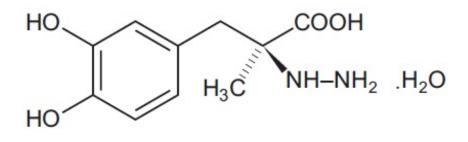
Based on the limited available information, the acute symptoms of levodopa/dopa decarboxylase inhibitor overdosage can be expected to arise from dopaminergic overstimulation. Doses of a few grams may result in CNS disturbances, with an increasing likelihood of cardiovascular disturbance (e.g., hypotension, 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 catecholstructured drugs) should be taken into consideration.

11 DESCRIPTION

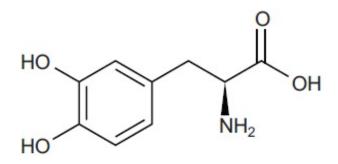
RYTARY is a combination of carbidopa, an inhibitor of aromatic amino acid decarboxylation, and levodopa, an aromatic amino acid, in extended-release capsules for oral use.

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- α -hydrazino-3, 4-dihydroxy- α -methylhydrocinnamic acid monohydrate. Its molecular formula is C₁₀H₁₄N₂O₄ • H₂O 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 C₉H₁₁NO₄ 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

<u>Carbidopa</u>

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.

<u>Levodopa</u>

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 RYTARY the maximum concentration occurred at approximately 3 hours. The bioavailability of carbidopa from RYTARY relative to immediate-release carbidopa-levodopa tablets was approximately 50%.

Levodopa

The pharmacokinetics of RYTARY 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 RYTARY in patients was approximately 70% relative to immediate-release carbidopa-levodopa. For comparable doses, RYTARY results in a levodopa peak concentration (C_{max}) that is 30% that of immediate-release carbidopa-levodopa. For comparable doses, 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 RYTARY compared to approximately 3.2 for immediate-release levodopa.

<u>Distribution</u>

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: α -methyl-3-methoxy-4hydroxyphenylpropionic acid and α -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 carbidopalevodopa 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 RYTARY.

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

RYTARY shows 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 RYTARY after a high-fat, high-calorie meal reduced C_{max} approximately 21% and increased AUC_{inf} 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 RYTARY 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 RYTARY, 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 RYTARY:

• 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

<u>Carcinogenesis</u>

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

<u>Mutagenesis</u>

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 carbidopalevodopa.

14 CLINICAL STUDIES

14.1 Patients with Early Parkinson's Disease

The effectiveness of RYTARY 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 RYTARY (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 RYTARY 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 RYTARY, 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 RYTARY 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

	Mean UP	DRS (Part II and	Part III) Score ^a
Treatment	Baseline ^b	Week 30	Change from Baseline at Week 30 ^c
Placebo	36.5	35.9	-0.6
RYTARY 36.25 mg/145 mg TID	36.1	24.4	-11.7 ^d
RYTARY 61.25 mg/245 mg TID	38.2	25.3	-12.9 ^d
RYTARY 97.5 mg/390 mg TID	36.3	21.4	-14.9 ^d
^b All values I	based on 3 iumbers inc	61 patients who ha	reater severity of impairment. ad valid End-of-Study values. t as compared with the baseline value.

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 RYTARY, 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 RYTARY 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 RYTARY. The final total daily dose of levodopa from RYTARY was approximately double that of the final total daily dose of levodopa from immediaterelease 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 RYTARY-treated patients compared to immediate-release carbidopa-levodopa-treated patients (Table 5). The decrease in "off" time observed with RYTARY occurred with a concomitant increase in "on time" without troublesome dyskinesia.

Table 5: Study 2: Parkinson's Disease Diary Measures in Patients withAdvanced Parkinson's Disease

Percentage of waking hours spent in "Off"	Baseline	Week 22 (or Early Termination)
RYTARY	36.9%	23.8% ^a
Immediate-release carbidopa- levodopa	36.0%	29.8%
"Off" Time (hours)		
RYTARY	6.1 hours	3.9 hours ^a
Immediate-release carbidopa- levodopa	5.9 hours	4.9 hours
"On" Time with no or non- troublesome dyskinesia (hours)		
RYTARY	10.0 hours	11.8 hours ^a
Immediate-release carbidopa- levodopa	10.1 hours	10.9 hours
^a P-value is less than 0.05.		

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

RYTARY (carbidopa and levodopa) Extended-Release Capsules are available in the following strengths:

• 23.75 mg Carbidopa and 95 mg of Levodopa: blue and white capsule imprinted with IPX066 on the capsule cap and 95 on the capsule body.

They are available as follows:

Bottles of 100: (NDC 60846-661-01)

• **36.25 mg Carbidopa and 145 mg Levodopa:** blue and light blue capsule imprinted with IPX066 on the capsule cap and 145 on the capsule body.

They are available as follows:

Bottles of 100: (NDC 60846-662-01)

• **48.75 mg Carbidopa and 195 mg Levodopa:** blue and yellow capsule imprinted with IPX066 on the capsule cap and 195 on the capsule body.

They are available as follows:

Bottles of 100: (NDC 60846-663-01)

• **61.25 mg Carbidopa and 245 mg Levodopa:** blue capsule imprinted with IPX066 on the capsule cap and 245 on the capsule body.

They are available as follows:

Bottles of 100: (NDC 60846-664-01)

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 tightly closed, light-resistant container.

17 PATIENT COUNSELING INFORMATION

Dosing Instructions

- Advise patients to not take other carbidopa-levodopa preparations with RYTARY without consulting their healthcare provider [see Dosage and Administration (2.2)].
- Advise patients to call their healthcare provider before stopping RYTARY. Discontinue RYTARY 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 RYTARY capsules whole, without chewing, dividing, or crushing [see Dosage and Administration (2.4)].
- For patients with difficulty swallowing, the entire contents of the RYTARY 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 RYTARY 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 RYTARY [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)].

<u>Dyskinesia</u>

Instruct patients to notify their healthcare provider if abnormal involuntary movements appear or get worse during treatment with RYTARY [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 RYTARY.

Pregnancy and Breastfeeding

Advise patients to notify their healthcare provider if they become pregnant or intend to become pregnant during RYTARY 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)].

Manufactured by:

Amneal Pharmaceuticals Pvt. Ltd.

Ahmedabad 382220, INDIA

Distributed by:

Amneal Specialty, a division of Amneal Pharmaceuticals LLC

Bridgewater, NJ 08807

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Rev. 05-2025-00

PRINCIPAL DISPLAY PANEL

NDC 60846-661-01

RYTARY[®] (Carbidopa and Levodopa) Extended-Release Capsules

23.75 mg/95 mg

100 Capsules

Rx Only



NDC 60846-662-01

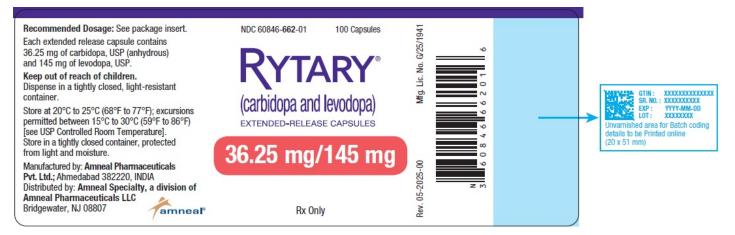
RYTARY[®] (Carbidopa and Levodopa) Extended-Release Capsules

36.25 mg/145 mg

100 Capsules

Rx Only

Amneal Pharmaceuticals LLC



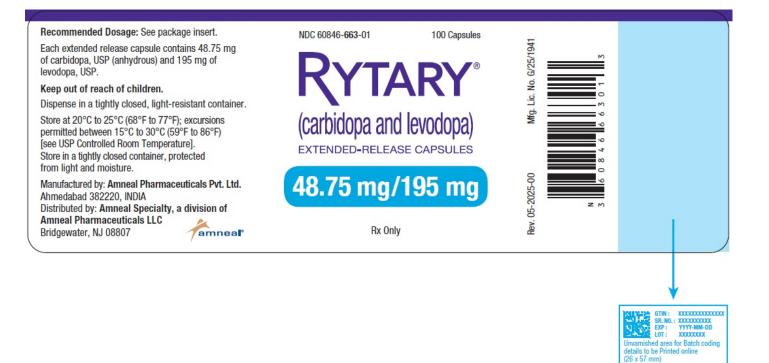
NDC 60846-663-01

RYTARY[®] (Carbidopa and Levodopa) Extended-Release Capsules

48.75 mg/195 mg

100 Capsules

Rx Only



NDC 60846-664-01

RYTARY[®] (Carbidopa and Levodopa) Extended-Release Capsules

61.25 mg/245 mg

100 Capsules

Rx Only

 Recommended Dosage: See package insert. Each extended release capsule contains 61.25 mg of carbidopa, USP (anhydrous) and 245 mg of levodopa, USP. Keep out of reach of children. Dispense in a tightly closed, light-resistant container. 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. Manufactured by: Amneal Pharmaceuticals Pvt. Ltd. Ahmedabad 382220, INDIA Distributed by: Amneal Specialty, a division of Amneal Pharmaceuticals LLC Bridgewater, NJ 08807 	Ind Capsules Reverse and levodopa (carbidopa and levodopa) Extended-release capsules 61.25 mg/245 mg Rx Only	Rev. 05-2025-00 Mfg. Lic. No. G/25/1941	
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			GTIN: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

RYTARY						
carbidopa and levodopa	a capsule, ext	ended release				
Product Informatio	on					
Product Type	HUMAN	PRESCRIPTION DRUG	Item Coo	de (Source)	NDC:6	0846-661
Route of Administratio	on ORAL					
Active Ingredient/A	ctive Moiety	/				
	Ingredient	Name		Basis of Str	ength	Strength
LEVODOPA (UNII: 4662706	-			LEVODOPA	9	95 mg
CARBIDOPA (UNII: MNX7R8	-		87B45RGH)	CARBIDOPA ANH	YDROUS	
						J
Inactive Ingredients	S					
J		gredient Name				Strength
MICROCRYSTALLINE CELI		-				5
MANNITOL (UNII: 30WL53L		11020010)				
TARTARIC ACID (UNII: W48						
ETHYLCELLULOSE (UNII: 7						
HYPROMELLOSE 2910 (6		WZ 8WG20P6)				
SODIUM STARCH GLYCOL			2)			
SODIUM LAURYL SULFATI			- /			
POVIDONE (UNII: FZ989GH		· •				
TALC (UNII: 7SEV7J4R1U)						
METHACRYLIC ACID - ME	THYL METHACF	YLATE COPOLYMER (1	:1) (UNII: 74	G4R6TH13)		
METHACRYLIC ACID - ME						
TRIETHYL CITRATE (UNII:				,		
CROSCARMELLOSE SODI	. ,	1HH48)				
MAGNESIUM STEARATE (U						
GELATIN (UNII: 2G86QN327						
TITANIUM DIOXIDE (UNII:						
FD&C BLUE NO. 2 (UNII: L	.06K8R7DQK)					
FERRIC OXIDE YELLOW (U		Т)				
BUTYL ALCOHOL (UNII: 8P	J61P6TS3)					
ALCOHOL (UNII: 3K9958V90	0M)					
ISOPROPYL ALCOHOL (UN	NII: ND2M416302))				
PROPYLENE GLYCOL (UNI	I: 6DC9Q167V3)					
SHELLAC (UNII: 46N107B71	LO)					
AMMONIA (UNII: 5138Q19F	1X)					
Product Characteri	stics					
	lue, white	Score		n	o score	
	APSULE (oval)	Size			8mm	
Flavor			t Code		X066;95	
		imprin	Coue	IP	1000,90	

Contains

Packaging						
# Item Code	Pa	ckage Description		ing Start ate		ting End ate
1 NDC:60846-661- 01	100 in 1 BOTT Product	LE; Type 0: Not a Combination	06/25/2025			
Marketing	Informat	ion				
Marketing Category	Applica	tion Number or Monograph Citation		eting Start Date		ting End Date
NDA	NDA203312		06/25/20	25		
RYTARY						
	vodopa capa	ule, extended release				
ai biuopa ariu ie	vouopa caps	ule, extended release				
Product Infor	mation					
Product Type		HUMAN PRESCRIPTION DRUG	Item Cod	le (Source)	NDC:6	0846-662
Route of Admin	istration	ORAL				
Active Ingred	ient/Active	Moiety				
		edient Name		Basis of S	tronath	Strongt
		VODOPA - UNII:466270600J)		LEVODOPA	uengui	-
	-	· · · · · · · · · · · · · · · · · · ·		CARBIDOPA AN		145 mg 36.25 mg
CAPPIDODA /LINUL		CANDIDOFA ANTI DROUS - UNII. KRO	57645666	CARDIDOFA AN		50.25 mg
CARBIDOPA (UNII:						
CARBIDOPA (UNII:						
	dianta					
	dients					.
Inactive Ingre		Ingredient Name				Strength
Inactive Ingre	NE CELLULOS	Ingredient Name (UNII: OP1R32D61U)				Strength
Inactive Ingre MICROCRYSTALLI MANNITOL (UNII: 3	NE CELLULOS OWL53L36A)	E (UNII: OP1R32D61U)				Strength
Inactive Ingre MICROCRYSTALLI MANNITOL (UNII: 3 TARTARIC ACID (U	NE CELLULOS OWL53L36A) NII: W4888I119H	E (UNII: OP1R32D61U)				Strength
Inactive Ingre MICROCRYSTALLI MANNITOL (UNII: 3 TARTARIC ACID (U ETHYLCELLULOSI	NE CELLULOS OWL53L36A) NII: W4888I119H : (UNII: 7Z8S9V	E (UNII: OP1R32D61U) H) YZ4B)				Strengt
Inactive Ingre MICROCRYSTALLI MANNITOL (UNII: 3 TARTARIC ACID (U ETHYLCELLULOSI HYPROMELLOSE 2	NE CELLULOS OWL53L36A) NII: W4888I119F : (UNII: 7Z8S9V 2910 (6 MPA.S	E (UNII: OP1R32D61U) H) YZ 4B)) (UNII: 0WZ 8WG20P6)				Strengtl
Inactive Ingre MICROCRYSTALLI MANNITOL (UNII: 3 TARTARIC ACID (U ETHYLCELLULOSI HYPROMELLOSE 3 SODIUM STARCH	NE CELLULOSI OWL53L36A) NII: W4888I119F : (UNII: 7Z8S9V 2910 (6 MPA.S GLYCOLATE TY	E (UNII: OP1R32D61U) H) YZ 4B)) (UNII: 0WZ 8WG20P6) YPE A POTATO (UNII: 5856J3G2A2	•)			Strengt
Inactive Ingre MICROCRYSTALLI MANNITOL (UNII: 3 TARTARIC ACID (U ETHYLCELLULOSI HYPROMELLOSE 3 SODIUM STARCH SODIUM LAURYL 5	NE CELLULOSI OWL53L36A) NII: W4888I119H : (UNII: 7Z8S9V 2910 (6 MPA.S GLYCOLATE TY SULFATE (UNII:	E (UNII: OP1R32D61U) H) YZ 4B)) (UNII: 0WZ 8WG20P6) YPE A POTATO (UNII: 5856J3G2A2	·)			Strengt
Inactive Ingre MICROCRYSTALLI MANNITOL (UNII: 3 TARTARIC ACID (U ETHYLCELLULOSI HYPROMELLOSE 2	NE CELLULOSI OWL53L36A) NII: W4888I119F : (UNII: 7Z8S9V 2910 (6 MPA.S GLYCOLATE TY SULFATE (UNII: Z989GH94E)	E (UNII: OP1R32D61U) H) YZ 4B)) (UNII: 0WZ 8WG20P6) YPE A POTATO (UNII: 5856J3G2A2	.)			Strengt

METHACRYLIC ACID - METHYL METHACRYLATE COPOLYMER (1:1) (UNII: 74G4R6TH13)

METHACRYLIC ACID - METHYL METHACRYLATE COPOLYMER (1:2) (UNII: 5KY68S2577)

TRIETHYL CITRATE (UNII: 8Z96QXD6UM)

CROSCARMELLOSE SODIUM (UNII: M280L1HH48)

MAGNESIUM STEARATE (UNII: 70097M6I30)

GELATIN (UNII: 2G86QN327L)

TITANIUM DIOXIDE (UNII: 15FIX9V2JP)

FD&C BLUE NO. 2 (UNII: L06K8R7DQK)

FER		DW (UNII: EX438O2MRT)						
BUT	BUTYL ALCOHOL (UNII: 8PJ61P6TS3)							
ALC	OHOL (UNII: 3K99	58V90M)						
ISO	ISOPROPYL ALCOHOL (UNII: ND2M416302)							
PRO	PROPYLENE GLYCOL (UNII: 6DC9Q167V3)							
SHE	LLAC (UNII: 46N10)7B71O)						
AMN	MONIA (UNII: 5138	Q19F1X)						
Pro	oduct Charac	teristics						
Col	or	blue, blue (light blue)	Scor	e	no score			
Sha	аре	CAPSULE (oval)	Size		19mm			
Flay	vor		Impr	rint Code	IPX066;145			
Con	ntains							
Pa	ckaging							
#	ltem Code	Package Description		Marketing Start Date	Marketing End Date			
		00 in 1 BOTTLE; Type 0: Not a Combinatio roduct	n (06/25/2025				
Ma	arketing In	formation						
	Marketing Category	Application Number or Monogra Citation	aph	Marketing Start Date	Marketing End Date			
NDA		NDA203312		06/25/2025				
RY	TARY							

carbidopa and levodopa capsule, extended release

Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	ltem Coo	le (Source)	NDC:6	0846-663
Route of Administration	ORAL				
Active Ingradient/Active	Maiah				
Active Ingredient/Active	Molety				
Ingr	edient Name		Basis of Stre	ngth	Strength
LEVODOPA (UNII: 466270600J) (LE	VODOPA - UNII:466270600J)		LEVODOPA		195 mg
CARBIDOPA (UNII: MNX7R8C5VO) (CARBIDOPA ANHYDROUS - UNII:KR8	7B45RGH)	CARBIDOPA ANHY	DROUS	48.75 mg
Inactive Ingredients					
	Ingredient Name				Strength
MICROCRYSTALLINE CELLULOSI	(UNII: OP1R32D61U)				
MANNITOL (UNII: 30WL53L36A)					

TARTARIC ACID	(UNII: W4888I119H)		
	SE (UNII: 7Z8S9VYZ4B)		
	2910 (6 MPA.S) (UNII: 0WZ 8V	VG20P6)	
SODIUM STARCH	H GLYCOLATE TYPE A POTAT	0 (UNII: 5856J3G2A2)	
SODIUM LAURYL	SULFATE (UNII: 368GB5141J)		
POVIDONE (UNII:	FZ 989GH94E)		
TALC (UNII: 7SEV	7J4R1U)		
METHACRYLIC A	CID - METHYL METHACRYLA	TE COPOLYMER (1:1) (UNII: 74G4R	6TH13)
METHACRYLIC A	CID - METHYL METHACRYLA	TE COPOLYMER (1:2) (UNII: 5KY68	S2577)
TRIETHYL CITRA	TE (UNII: 8Z96QXD6UM)		
CROSCARMELLO	SE SODIUM (UNII: M28OL1HH4	8)	
MAGNESIUM ST	EARATE (UNII: 70097M6I30)		
GELATIN (UNII: 2	G86QN327L)		
TITANIUM DIOXI	DE (UNII: 15FIX9V2JP)		
FD&C BLUE NO.	2 (UNII: L06K8R7DQK)		
FERRIC OXIDE Y	ELLOW (UNII: EX43802MRT)		
BUTYL ALCOHO	L (UNII: 8PJ61P6TS3)		
ALCOHOL (UNII:	3K9958V90M)		
ISOPROPYL ALC	OHOL (UNII: ND2M416302)		
PROPYLENE GLY	COL (UNII: 6DC9Q167V3)		
SHELLAC (UNII: 4	6N107B71O)		
AMMONIA (UNII:	5138Q19F1X)		
Product Cha	racteristics		
Color	blue, yellow	Score	no score
Shape	CAPSULE (oval)	Size	24mm
Flavor		Imprint Code	IPX066;195
Contains			

Pa	ackaging	
#	ltem Code	Package De

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:60846-663- 01	100 in 1 BOTTLE; Type 0: Not a Combination Product	06/25/2025	

Marketing Information

Marketing	Application Number or Monograph	Marketing Start	Marketing End
Category	Citation	Date	Date
NDA	NDA203312	06/25/2025	

RYTARY

carbidopa and levodopa capsule, extended release

Product Information

CARBIDOPA (UNII: MNX7R Inactive Ingredient MICROCRYSTALLINE CEI MANNITOL (UNII: 30WL53 TARTARIC ACID (UNII: W4 ETHYLCELLULOSE (UNII: HYPROMELLOSE 2910 (Active Moiety Ingredient Name 1600J) (LEVODOPA - UNII:46627 18C5VO) (CARBIDOPA ANHYDRO 18C5VO) (CARBIDOPA ANHY	Name	LEVOD	is of Strength DOPA DOPA ANHYDROUS	245 mg
Active Ingredient// EVODOPA (UNII: 466270 CARBIDOPA (UNII: MNX7R Inactive Ingredient MICROCRYSTALLINE CEI MANNITOL (UNII: 30WL53 FARTARIC ACID (UNII: W4 ETHYLCELLULOSE (UNII: HYPROMELLOSE 2910 (G SODIUM STARCH GLYCO	Active Moiety Ingredient Name 1600J) (LEVODOPA - UNII:46627 18C5VO) (CARBIDOPA ANHYDRO 18C5VO) (CARBIDOPA ANHY	Name	LEVOD	OPA	245 mg 61.25 mg
EVODOPA (UNII: 466270 CARBIDOPA (UNII: MNX7R NACTIVE Ingredient AICROCRYSTALLINE CEI MANNITOL (UNII: 30WL53 CARTARIC ACID (UNII: W4 CTHYLCELLULOSE (UNII: W4 CTHYLCELLULOSE (UNII: W4 CODIUM STARCH GLYCO	Ingredient Name 1600J) (LEVODOPA - UNII:46627 18C5VO) (CARBIDOPA ANHYDRO 18C5VO) (C	Name	LEVOD	OPA	245 mg 61.25 mg
EVODOPA (UNII: 466270 CARBIDOPA (UNII: MNX7R NACTIVE Ingredient AICROCRYSTALLINE CEI MANNITOL (UNII: 30WL53 CARTARIC ACID (UNII: W4 CTHYLCELLULOSE (UNII: W4 CTHYLCELLULOSE (UNII: W4 CODIUM STARCH GLYCO	Ingredient Name 1600J) (LEVODOPA - UNII:46627 18C5VO) (CARBIDOPA ANHYDRO 18C5VO) (C	Name	LEVOD	OPA	245 mg 61.25 mg
CARBIDOPA (UNII: MNX7R Inactive Ingredient MICROCRYSTALLINE CEI MANNITOL (UNII: 30WL53 FARTARIC ACID (UNII: W4 ETHYLCELLULOSE (UNII: HYPROMELLOSE 2910 (0 SODIUM STARCH GLYCO	1600J) (LEVODOPA - UNII:46627 18C5VO) (CARBIDOPA ANHYDRO 18C5VO) (CARBIDOPA ANHYDRO 18C5VO) (CARBIDOPA ANHYDRO 19 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Name	LEVOD	OPA	245 mg 61.25 mg
CARBIDOPA (UNII: MNX7R Inactive Ingredient MICROCRYSTALLINE CEI MANNITOL (UNII: 30WL53 FARTARIC ACID (UNII: W4 ETHYLCELLULOSE (UNII: HYPROMELLOSE 2910 (0 SODIUM STARCH GLYCO	ts Ingredient I LLULOSE (UNII: OP1R32D61U) L36A) 8881119H) 7Z 8S9VYZ 4B) 6 MPA.S) (UNII: 0WZ 8WG20P6 DLATE TYPE A POTATO (UNII: TE (UNII: 368GB5141J)	Name			61.25 mg
Inactive Ingredient MICROCRYSTALLINE CEI MANNITOL (UNII: 30WL53 FARTARIC ACID (UNII: W4 ETHYLCELLULOSE (UNII: HYPROMELLOSE 2910 (0 GODIUM STARCH GLYCO	ts Ingredient I LLULOSE (UNII: OP1R32D61U) L36A) 8881119H) 7Z 8S9VYZ 4B) 6 MPA.S) (UNII: OWZ 8WG20P6 DLATE TYPE A POTATO (UNII: TE (UNII: 368GB5141J)	Name)	37B45RGH) CARBI	DOPA ANHYDROUS	
MICROCRYSTALLINE CE MANNITOL (UNII: 30WL53 FARTARIC ACID (UNII: W4 ETHYLCELLULOSE (UNII: HYPROMELLOSE 2910 (0 SODIUM STARCH GLYCO	Ingredient I LLULOSE (UNII: OP1R32D61U) L36A) 8881119H) 7Z8S9VYZ4B) 6 MPA.S) (UNII: 0WZ8WG20P6 DLATE TYPE A POTATO (UNII: TE (UNII: 368GB5141J))			Strengt
MICROCRYSTALLINE CE MANNITOL (UNII: 30WL53 FARTARIC ACID (UNII: W4 ETHYLCELLULOSE (UNII: HYPROMELLOSE 2910 (0 GODIUM STARCH GLYCO	Ingredient I LLULOSE (UNII: OP1R32D61U) L36A) 8881119H) 7Z8S9VYZ4B) 6 MPA.S) (UNII: 0WZ8WG20P6 DLATE TYPE A POTATO (UNII: TE (UNII: 368GB5141J))			Strengt
MICROCRYSTALLINE CE MANNITOL (UNII: 30WL53 FARTARIC ACID (UNII: W4 ETHYLCELLULOSE (UNII: HYPROMELLOSE 2910 (0 SODIUM STARCH GLYCO	Ingredient I LLULOSE (UNII: OP1R32D61U) L36A) 8881119H) 7Z8S9VYZ4B) 6 MPA.S) (UNII: 0WZ8WG20P6 DLATE TYPE A POTATO (UNII: TE (UNII: 368GB5141J))			Strengt
MANNITOL (UNII: 30WL53 FARTARIC ACID (UNII: W4 ETHYLCELLULOSE (UNII: HYPROMELLOSE 2910 (0 SODIUM STARCH GLYCO	LLULOSE (UNII: OP1R32D61U) L36A) 8881119H) 7Z8S9VYZ4B) 6 MPA.S) (UNII: OWZ8WG20P6 DLATE TYPE A POTATO (UNII: TE (UNII: 368GB5141J))			Strengt
MANNITOL (UNII: 30WL53 FARTARIC ACID (UNII: W4 ETHYLCELLULOSE (UNII: HYPROMELLOSE 2910 (0 GODIUM STARCH GLYCO	L36A) 8881119H) 7Z8S9VYZ4B) 6 MPA.S) (UNII: 0WZ8WG20P6 DLATE TYPE A POTATO (UNII: TE (UNII: 368GB5141J))			
THYLCELLULOSE (UNII: IYPROMELLOSE 2910 (ODIUM STARCH GLYCO	7Z8S9VYZ4B) 6 MPA.S) (UNII: 0WZ8WG20P6 DLATE TYPE A POTATO (UNII: TE (UNII: 368GB5141J)	•			
HYPROMELLOSE 2910 (SODIUM STARCH GLYCO	6 MPA.S) (UNII: 0WZ 8WG20P6 DLATE TYPE A POTATO (UNII: TE (UNII: 368GB5141J)	•			
SODIUM STARCH GLYCO	DLATE TYPE A POTATO (UNII: TE (UNII: 368GB5141J)	•			
	TE (UNII: 368GB5141J)	5856J3G2A2			
SODIUM LAURYL SULFA)		
	H94E)				
POVIDONE (UNII: FZ989G					
TALC (UNII: 7SEV7J4R1U)					
METHACRYLIC ACID - M	ETHYL METHACRYLATE COP	OLYMER (1:	:1) (UNII: 74G4R6T	H13)	
METHACRYLIC ACID - M	ETHYL METHACRYLATE COP	OLYMER (1:	2) (UNII: 5KY68S2	577)	
RIETHYL CITRATE (UNII:	: 8Z96QXD6UM)				
CROSCARMELLOSE SOD	UM (UNII: M28OL1HH48)				
MAGNESIUM STEARATE	(UNII: 70097M6I30)				
GELATIN (UNII: 2G86QN32	27L)				
TITANIUM DIOXIDE (UNII:	: 15FIX9V2JP)				
D&C BLUE NO. 2 (UNII:	L06K8R7DQK)				
ERRIC OXIDE YELLOW	(UNII: EX438O2MRT)				
BUTYL ALCOHOL (UNII: 8	PJ61P6TS3)				
ALCOHOL (UNII: 3K9958V	90M)				
SOPROPYL ALCOHOL (U	JNII: ND2M416302)				
PROPYLENE GLYCOL (UN	NII: 6DC9Q167V3)				
SHELLAC (UNII: 46N107B7	710)				
AMMONIA (UNII: 5138Q19	F1X)				
Product Character	istics				
Color b	blue, blue	Score		no score	
Shape C	CAPSULE (oval)	Size		23mm	
Flavor		Imprint C	Code	IPX066;245	
Contains					
Packaging					
# Item Code	Package Descriptio	n	Marketing St Date		ting End ate

• 01	Product	0/25/2025	
Marketing	Information		
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA203312	06/25/2025	

Labeler - Amneal Pharmaceuticals LLC (123797875)

Establishment

Name	Address	ID/FEI	Business Operations
Amneal Pharmaceuticals Private Limited		915076126	analysis(60846-661, 60846-662, 60846-663, 60846-664) , label(60846-661, 60846-662, 60846-663, 60846-664) , manufacture(60846-661, 60846-662, 60846-663, 60846-664) , pack(60846-661, 60846-662, 60846-663, 60846-664)

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