

PHENTERMINE HYDROCHLORIDE- phentermine hydrochloride capsule

Lannett Company, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use phentermine hydrochloride capsules, USP safely and effectively. See full prescribing information for phentermine hydrochloride capsules, USP.

PHENTERMINE Hydrochloride Capsules, USP for oral use CIV
Initial U.S. Approval: 1959

INDICATIONS AND USAGE

Phentermine hydrochloride is a sympathomimetic amine anorectic indicated as a short-term adjunct (a few weeks) in a regimen of weight reduction based on exercise, behavioral modification and caloric restriction in the management of exogenous obesity for patients with an initial body mass index ≥ 30 kg/m², or ≥ 27 kg/m² in the presence of other risk factors (e.g., controlled hypertension, diabetes, hyperlipidemia). (1)

The limited usefulness of agents of this class, including phentermine hydrochloride, should be measured against possible risk factors inherent in their use. (1)

DOSAGE AND ADMINISTRATION

- Dosage should be individualized to obtain an adequate response with the lowest effective dose. (2.1)
- Late evening administration should be avoided (risk of insomnia). (2.1)
- Phentermine hydrochloride capsules can be taken with or without food (2.1)
- Limit the dosage to 15 mg daily for patients with severe renal impairment (eGFR 15 to 29 mL/min/1.73m²). (2.2)

DOSAGE FORMS AND STRENGTHS

- Powder-filled capsules containing 15 mg phentermine hydrochloride. (3)
- Powder-filled capsules containing 30 mg phentermine hydrochloride. (3)
- Pellet-filled capsules containing 30 mg phentermine hydrochloride. (3)

CONTRAINDICATIONS

- History of cardiovascular disease (e.g., coronary artery disease, stroke, arrhythmias, congestive heart failure, uncontrolled hypertension) (4)
- During or within 14 days following the administration of monoamine oxidase inhibitors (4)
- Hyperthyroidism (4)
- Glaucoma (4)
- Agitated states (4)
- History of drug abuse (4)
- Pregnancy (4, 8.1)
- Nursing (4, 8.3)
- Known hypersensitivity, or idiosyncrasy to the sympathomimetic amines (4)

WARNINGS AND PRECAUTIONS

- Coadministration with other drugs for weight loss is not recommended (safety and efficacy of combination not established). (5.1)
- Rare cases of primary pulmonary hypertension have been reported. Phentermine should be discontinued in case of new, unexplained symptoms of dyspnea, angina pectoris, syncope or lower extremity edema. (5.2)
- Rare cases of serious regurgitant cardiac valvular disease have been reported. (5.3)
- Tolerance to the anorectic effect usually develops within a few weeks. If this occurs, phentermine should be discontinued. The recommended dose should not be exceeded. (5.4)
- Phentermine may impair the ability of the patient to engage in potentially hazardous activities such as operating machinery or driving a motor vehicle. (5.5)
- Risk of abuse and dependence. The least amount feasible should be prescribed or dispensed at one time in order to minimize the possibility of overdose. (5.6)
- Concomitant alcohol use may result in an adverse drug reaction. (5.7)
- Use caution in patients with even mild hypertension (risk of increase in blood pressure). (5.8)

- A reduction in dose of insulin or oral hypoglycemic medication may be required in some patients. (5.9)

ADVERSE REACTIONS

Adverse events have been reported in the cardiovascular, central nervous, gastrointestinal, allergic, and endocrine systems. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Lannett Company, Inc. at 1-844-834-0530 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Monoamine oxidase inhibitors: Risk of hypertensive crisis. (4, 7.1)
- Alcohol: Consider potential interaction (7.2)
- Insulin and oral hypoglycemics: Requirements may be altered. (7.3)
- Adrenergic neuron blocking drugs: Hypotensive effect may be decreased by phentermine. (7.4)

USE IN SPECIFIC POPULATIONS

- Nursing mothers: Discontinue drug or nursing taking into consideration importance of drug to mother. (4, 8.3)
- Pediatric use: Safety and effectiveness not established. (8.4)
- Geriatric use: Due to substantial renal excretion, use with caution. (8.5)
- Renal Impairment: Avoid use in patients with eGFR less than 15 mL/min/m² or end-stage renal disease requiring dialysis. (8.6)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 4/2017

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Phentermine hydrochloride capsules are indicated as a short-term (a few weeks) adjunct in a regimen of weight reduction based on exercise, behavioral modification and caloric restriction in the management of exogenous obesity for patients with an initial body mass index $\geq 30 \text{ kg/m}^2$, or $\geq 27 \text{ kg/m}^2$ in the presence of other risk factors (e.g., controlled hypertension, diabetes, hyperlipidemia).

Below is a chart of body mass index (BMI) based on various heights and weights.

BMI is calculated by taking the patient's weight, in kilograms (kg), divided by the patient's height, in meters (m), squared. Metric conversions are as follows: pounds $\div 2.2 = \text{kg}$; inches $\times 0.0254 = \text{meters}$.

BODY MASS INDEX (BMI), kg/m^2							
Height (feet, inches)							
Weight (pounds)	5'0"	5'3"	5'6"	5'9"	6'0"	6'3"	
140	27	25	23	21	19	18	
150	29	27	24	22	20	19	
160	31	28	26	24	22	20	
170	33	30	28	25	23	21	

180	35	32	29	27	25	23
190	37	34	31	28	26	24
200	39	36	32	30	27	25
210	41	37	34	31	29	26
220	43	39	36	33	30	28
230	45	41	37	34	31	29
240	47	43	39	36	33	30
250	49	44	40	37	34	31

The limited usefulness of agents of this class, including phentermine, [see *Clinical Pharmacology* (12.1, 12.2)] should be measured against possible risk factors inherent in their use such as those described below.

2 DOSAGE AND ADMINISTRATION

2.1 Exogenous Obesity

Dosage should be individualized to obtain an adequate response with the lowest effective dose.

The usual adult dose is 15 mg to 30 mg as prescribed by the physician, at approximately 2 hours after breakfast for appetite control. Administration of one 30 mg capsule daily has been found to be adequate in depression of the appetite for 12 to 14 hours. Phentermine is not recommended for use in pediatric patients ≤ 16 years of age.

Late evening medication should be avoided because of the possibility of resulting insomnia.

2.2 Dosage in Patients With Renal Impairment

The recommended maximum dosage of phentermine is 15 mg for patients with severe renal impairment (eGFR 15 to 29 mL/min/1.73m²). Avoid use of phentermine in patients with eGFR less than 15 mL/min/1.73m² or end-stage renal disease requiring dialysis [see *Use in Specific Populations* (8.6) and *Clinical Pharmacology* (12.3)].

3 DOSAGE FORMS AND STRENGTHS

- Phentermine Hydrochloride Capsules, USP, 15 mg (equivalent to 12 mg phentermine base): powder-filled capsules, gray/orange; imprinted logo LANNETT on the cap and 1742 on the body.
- Phentermine Hydrochloride Capsules, USP, 30 mg (equivalent to 24 mg phentermine base): powder-filled capsules, natural/blue; imprinted logo LANNETT on the cap and 1308 on the body.
- Phentermine Hydrochloride Capsules, USP, 30 mg (equivalent to 24 mg phentermine base): powder-filled capsules, yellow/yellow; imprinted logo LANNETT on the cap and 1310 on the body.
- Phentermine Hydrochloride Capsules, USP, 30 mg (equivalent to 24 mg phentermine base): powder-filled capsules, black/black; imprinted logo LANNETT on the cap and logo 0597 logo on the body.
- Phentermine Hydrochloride Capsules, USP, 30 mg (equivalent to 24 mg phentermine

base): pellet-filled capsules, natural/blue; imprinted logo LANNETT on the cap and 1438 on the body.

4 CONTRAINDICATIONS

- History of cardiovascular disease (e.g., coronary artery disease, stroke, arrhythmias, congestive heart failure, uncontrolled hypertension)
- During or within 14 days following the administration of monoamine oxidase inhibitors
- Hyperthyroidism
- Glaucoma
- Agitated states
- History of drug abuse
- Pregnancy [see *Use in Specific Populations (8.1)*]
- Nursing [see *Use in Specific Populations (8.3)*]
- Known hypersensitivity, or idiosyncrasy to the sympathomimetic amines

5 WARNINGS AND PRECAUTIONS

5.1 Coadministration with Other Drug Products for Weight Loss

Phentermine hydrochloride capsules are indicated only as short-term (a few weeks) monotherapy for the management of exogenous obesity. The safety and efficacy of combination therapy with phentermine and any other drug products for weight loss including prescribed drugs, over-the-counter preparations, and herbal products, or serotonergic agents such as selective serotonin reuptake inhibitors (e.g., fluoxetine, sertraline, fluvoxamine, paroxetine), have not been established. Therefore, coadministration of phentermine and these drug products is not recommended.

5.2 Primary Pulmonary Hypertension

Primary Pulmonary Hypertension (PPH) - a rare, frequently fatal disease of the lungs - has been reported to occur in patients receiving a combination of phentermine with fenfluramine or dexfenfluramine. The possibility of an association between PPH and the use of phentermine alone cannot be ruled out; there have been rare cases of PPH in patients who reportedly have taken phentermine alone. The initial symptom of PPH is usually dyspnea. Other initial symptoms may include angina pectoris, syncope or lower extremity edema. Patients should be advised to report immediately any deterioration in exercise tolerance. Treatment should be discontinued in patients who develop new, unexplained symptoms of dyspnea, angina pectoris, syncope or lower extremity edema, and patients should be evaluated for the possible presence of pulmonary hypertension.

5.3 Valvular Heart Disease

Serious regurgitant cardiac valvular disease, primarily affecting the mitral, aortic and/or tricuspid valves, has been reported in otherwise healthy persons who had taken a combination of phentermine with fenfluramine or dexfenfluramine for weight loss. The possible role of phentermine in the etiology of these valvulopathies has not been established and their course in

individuals after the drugs are stopped is not known. The possibility of an association between valvular heart disease and the use of phentermine alone cannot be ruled out; there have been rare cases of valvular heart disease in patients who reportedly have taken phentermine alone.

5.4 Development of Tolerance, Discontinuation in Case of Tolerance

When tolerance to the anorectant effect develops, the recommended dose should not be exceeded in an attempt to increase the effect; rather, the drug should be discontinued.

5.5 Effect on the Ability to Engage in Potentially Hazardous Tasks

Phentermine may impair the ability of the patient to engage in potentially hazardous activities such as operating machinery or driving a motor vehicle; the patient should therefore be cautioned accordingly.

5.6 Risk of Abuse and Dependence

Phentermine is related chemically and pharmacologically to amphetamine (d- and dl-amphetamine) and other related stimulant drugs that have been extensively abused. The possibility of abuse of phentermine should be kept in mind when evaluating the desirability of including a drug as part of a weight reduction program. See *Drug Abuse and Dependence (9)* and *Overdosage (10)*.

The least amount feasible should be prescribed or dispensed at one time in order to minimize the possibility of overdose.

5.7 Usage with Alcohol

Concomitant use of alcohol with phentermine may result in an adverse drug reaction.

5.8 Use in Patients with Hypertension

Use caution in prescribing phentermine for patients with even mild hypertension (risk of increase in blood pressure).

5.9 Use in Patients on Insulin or Oral Hypoglycemic Medications for Diabetes Mellitus

A reduction in insulin or oral hypoglycemic medications in patients with diabetes mellitus may be required.

6 ADVERSE REACTIONS

The following adverse reactions are described, or described in greater detail, in other sections:

- Primary pulmonary hypertension [see *Warnings and Precautions (5.2)*]
- Valvular heart disease [see *Warnings and Precautions (5.3)*]
- Effect on the ability to engage in potentially hazardous tasks [see *Warnings and Precautions (5.5)*]
- Withdrawal effects following prolonged high dosage administration [see *Drug Abuse and Dependence (9.3)*]

The following adverse reactions to phentermine have been identified:

Cardiovascular

Primary pulmonary hypertension and/or regurgitant cardiac valvular disease, palpitation, tachycardia, elevation of blood pressure, ischemic events.

Central Nervous System

Overstimulation, restlessness, dizziness, insomnia, euphoria, dysphoria, tremor, headache, psychosis.

Gastrointestinal

Dryness of the mouth, unpleasant taste, diarrhea, constipation, other gastrointestinal disturbances.

Allergic

Urticaria.

Endocrine

Impotence, changes in libido.

7 DRUG INTERACTIONS

7.1 Monoamine Oxidase Inhibitors

Use of phentermine is contraindicated during or within 14 days following the administration of monoamine oxidase inhibitors because of the risk of hypertensive crisis.

7.2 Alcohol

Concomitant use of alcohol with phentermine may result in an adverse drug reaction.

7.3 Insulin and Oral Hypoglycemic Medications

Requirements may be altered [see *Warnings and Precautions (5.9)*].

7.4 Adrenergic Neuron Blocking Drugs

Phentermine may decrease the hypotensive effect of adrenergic neuron blocking drugs.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Teratogenic Effects

Pregnancy Category X

Phentermine is contraindicated during pregnancy because weight loss offers no potential benefit to a pregnant woman and may result in fetal harm. A minimum weight gain, and no weight loss, is currently recommended for all pregnant women, including those who are already overweight or obese, due to obligatory weight gain that occurs in maternal tissues during pregnancy. Phentermine has pharmacologic activity similar to amphetamine (d- and d,l-amphetamine) [see *Clinical Pharmacology (12.1)*]. Animal

reproduction studies have not been conducted with phentermine. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to a fetus.

8.3 Nursing Mothers

It is not known if phentermine is excreted in human milk; however, other amphetamines are present in human milk. Because of the potential for serious adverse reactions in nursing infants, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established. Because pediatric obesity is a chronic condition requiring long-term treatment, the use of this product, approved for short-term therapy, is not recommended.

8.5 Geriatric Use

In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

8.6 Renal Impairment

Based on the reported excretion of phentermine in urine, exposure increases can be expected in patients with renal impairment. Use caution when administering phentermine to patients with renal impairment [see *Clinical Pharmacology* (12.3)].

Use caution when administering phentermine to patients with renal impairment. In patients with severe renal impairment (eGFR 15 to 29 mL/min/1.73m²), limit the dosage of phentermine to 15 mg daily [see *Dosage and Administration* (2.2)]. Phentermine has not been studied in patients with eGFR less than 15 mL/min/1.73m², including end-stage renal disease requiring dialysis; avoid use in these populations.

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

Phentermine is a Schedule IV controlled substance.

9.2 Abuse

Phentermine is related chemically and pharmacologically to the amphetamines. Amphetamines and other stimulant drugs have been extensively abused and the possibility of abuse of phentermine should be kept in mind when evaluating the desirability of including a drug as part of a weight reduction program.

9.3 Dependence

Abuse of amphetamines and related drugs may be associated with intense psychological dependence and severe social dysfunction. There are reports of patients who have increased the dosage of these drugs to many times than recommended. Abrupt cessation following prolonged high dosage administration results in extreme fatigue and mental depression; changes are also noted on the sleep EEG. Manifestations of chronic intoxication with anorectic drugs include severe dermatoses, marked insomnia, irritability, hyperactivity and personality changes. A severe manifestation of chronic intoxication is psychosis, often clinically indistinguishable from schizophrenia.

10 OVERDOSAGE

The least amount feasible should be prescribed or dispensed at one time in order to minimize the possibility of overdose.

10.1 Acute Overdosage

Manifestations of acute overdose include restlessness, tremor, hyperreflexia, rapid respiration, confusion, assaultiveness, hallucinations, and panic states. Fatigue and depression usually follow the central stimulation. Cardiovascular effects include arrhythmia, hypertension or hypotension, and circulatory collapse. Gastrointestinal symptoms include nausea, vomiting, diarrhea and abdominal cramps. Overdosage of pharmacologically similar compounds has resulted in fatal poisoning usually terminates in convulsions and coma.

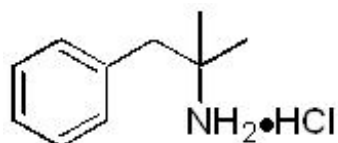
Management of acute phentermine hydrochloride intoxication is largely symptomatic and includes lavage and sedation with a barbiturate. Experience with hemodialysis or peritoneal dialysis is inadequate to permit recommendations in this regard. Acidification of the urine increases phentermine excretion. Intravenous phentolamine (Regitine[®], CIBA) has been suggested on pharmacologic grounds for possible acute, severe hypertension, if this complicates overdose.

10.2 Chronic Intoxication

Manifestations of chronic intoxication with anorectic drugs include severe dermatoses, marked insomnia, irritability, hyperactivity and personality changes. The most severe manifestation of chronic intoxications is psychosis, often clinically indistinguishable from schizophrenia. See *Drug Abuse and Dependence (9.3)*.

11 DESCRIPTION

Phentermine Hydrochloride Capsule, USP is a sympathomimetic amine anorectic. Its chemical name is α,α -dimethylphenethylamine hydrochloride. The structural formula is as follows:



$C_{10}H_{15}N \cdot HCl$ M.W. 185.7

Phentermine hydrochloride is a white, odorless, hygroscopic, crystalline powder which is soluble in water and lower alcohols, slightly soluble in chloroform and insoluble in ether.

Phentermine Hydrochloride Capsules, USP are available as:

a) powder-filled capsules containing 15 mg phentermine hydrochloride (equivalent to 12 mg phentermine base) or 30 mg phentermine hydrochloride (equivalent to 24 mg phentermine base) and inactive ingredients: corn starch and magnesium stearate. In addition, the 15 mg gray/orange capsules contain lactose monohydrate, gelatin, D&C Yellow # 10, FD&C Red # 40, FD&C Yellow # 6, titanium dioxide, black iron oxide, yellow iron oxide; the 30 mg natural/blue capsules contain lactose anhydrous, gelatin, D&C Red # 28, and FD&C Blue # 1; the 30 mg yellow/yellow capsules contain lactose anhydrous, gelatin, D&C Yellow # 10, FD&C Red # 3, and titanium dioxide; and the 30 mg black/black capsules contain lactose anhydrous, gelatin, FD&C Yellow # 6, FD&C Blue # 1, and FD&C Red # 40. The imprinting ink for the 15 mg gray/orange capsules, 30 mg natural/blue capsules and 30 mg yellow/yellow capsules contains: shellac glaze in ethanol, iron oxide black, n-butyl alcohol, propylene glycol, ethanol, methanol, FD&C Blue # 2 Aluminum Lake, FD&C Red # 40 Aluminum Lake, FD&C Blue # 1 Aluminum Lake, and D&C Yellow # 10 Aluminum Lake. The imprinting ink for the 30 mg black/black capsules contains: shellac, dehydrated alcohol, isopropyl alcohol, butyl alcohol, propylene glycol, strong ammonia solution, yellow iron oxide, and dimethicone.

b) pellet-filled capsules containing 30 mg phentermine hydrochloride (equivalent to 24 mg phentermine base) and inactive ingredients: sugar spheres, hypromellose, polyethylene glycol, titanium dioxide, FD&C Blue No. 1 Aluminum Lake, polysorbate 80, FD&C Blue No. 2 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake, gelatin, FD&C Blue No. 1 and D&C Red No. 28. The imprinting ink for the pellet-filled capsules contains: shellac glaze in ethanol, iron oxide black, n-butyl alcohol, propylene glycol, ethanol, methanol, FD&C Blue # 2 Aluminum Lake, FD&C Red # 40 Aluminum Lake, FD&C Blue # 1 Aluminum Lake, and D&C Yellow # 10 Aluminum Lake.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Phentermine is a sympathomimetic amine with pharmacologic activity similar to the prototype drugs of this class used in obesity, amphetamine (d- and d/l-amphetamine). Drugs of this class used in obesity are commonly known as "anorectics" or "anorexigenics." It has not been established that the primary action of such drugs in treating obesity is one of appetite suppression since other central nervous system actions, or metabolic effects, may also be involved.

12.2 Pharmacodynamics

Typical of amphetamines include central nervous system stimulation and elevation of blood pressure. Tachyphylaxis and tolerance have been demonstrated with all drugs of this class in which these phenomena have been looked for.

12.3 Pharmacokinetics

Following the administration of phentermine, phentermine reaches peak concentrations (C_{\max}) after 3 to 4.4 hours.

Drug Interactions

In a single-dose study comparing the exposures after oral administration of a combination capsule of 15 mg phentermine and 92 mg topiramate to the exposures after oral administration of a 15 mg phentermine capsule or a 92 mg topiramate capsule, there is no significant topiramate exposure change in the presence of phentermine. However in the presence of topiramate, phentermine C_{\max} and AUC increase 13% and 42%, respectively.

Specific Populations

Renal Impairment

Cumulative urinary excretion of phentermine under uncontrolled urinary pH conditions was 62%-85%.

Systemic exposure of phentermine may increase up to 91%, 45%, and 22% in patients with severe, moderate, and mild renal impairment, respectively [*see Dosage and Administration (2.2) and Use in Specific Populations (8.6)*].

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Studies have not been performed with phentermine to determine the potential for carcinogenesis, mutagenesis or impairment of fertility.

14 CLINICAL STUDIES

No clinical studies have been conducted with phentermine.

In relatively short-term clinical trials, adult obese subjects instructed in dietary management and treated with "anorectic" drugs lost more weight on the average than those treated with placebo and diet.

The magnitude of increased weight loss of drug-treated patients over placebo-treated patients is only a fraction of a pound a week. The rate of weight loss is greatest in the first weeks of therapy for both drug and placebo subjects and tends to decrease in succeeding weeks. The possible origins of the increased weight loss due to the various drug effects are not established. The amount of weight loss associated with the use of an "anorectic" drug varies from trial to trial, and the increased weight loss appears to be related in part to variables other than the drugs prescribed, such as the physician-investigator, the population treated and the diet prescribed. Studies do not permit conclusions as to the relative importance of the drug and non-drug factors on weight loss.

The natural history of obesity is measured over several years, whereas the studies cited are restricted to a few weeks' duration; thus, the total impact of drug-induced weight loss over that of diet alone must be considered clinically limited.

16 HOW SUPPLIED/STORAGE AND HANDLING

Phentermine Hydrochloride Capsules, USP are supplied as:

15 mg powder-filled capsules, gray/orange; imprinted logo LANNETT on the cap and 1742 on the body, in bottles of 100 (NDC 0527-1742-01) and 1000 (NDC 0527-1742-10) capsules.

30 mg powder-filled capsules, natural/blue; imprinted logo LANNETT on the cap and 1308 on the body, in bottles of 100 (NDC 0527-1308-01) and 1000 (NDC 0527-1308-10) capsules.

30 mg powder-filled capsules, yellow/yellow; imprinted logo LANNETT on the cap and 1310 on the body, in bottles of 100 (NDC 0527-1310-01) and 1000 (NDC 0527-1310-10) capsules.

30 mg powder-filled capsules, black/black; imprinted logo LANNETT on the cap and logo 0597 on the body, in bottles of 100 (NDC 0527-0597-01) and 1000 (NDC 0527-0597-10) capsules.

30 mg pellet-filled capsules, natural/blue; imprinted logo LANNETT on the cap and 1438 on the body, in bottles of 100 (NDC 0527-1438-01) and 1000 (NDC 0527-1438-10) capsules.

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

Dispense in a tight container as defined in the USP, with a child-resistant closure (as required).

Keep out of the reach of children.

17 PATIENT COUNSELING INFORMATION

Patients must be informed that phentermine hydrochloride is a *short-term* (a few weeks) adjunct in a regimen of weight reduction based on exercise, behavioral modification and caloric restriction in the management of exogenous obesity, and that coadministration of phentermine with other drugs for weight loss is not recommended [see *Indications and Usage (1)* and *Warnings and Precautions (5.1)*].

Patients must be instructed on how much phentermine to take, and when and how to take it [see *Dosage and Administration (3)*].

Advise pregnant women and nursing mothers not to use phentermine [see *Use in Specific Populations (8.1, 8.3)*].

Patients must be informed about the risks of use of phentermine (including the risks discussed in Warnings and Precautions), about the symptoms of potential adverse reactions and when to contact a physician and/or take other action. The risks include, but are not limited to:

- Development of primary pulmonary hypertension [see *Warnings and Precautions (5.2)*]
- Development of serious valvular heart disease [see *Warnings and Precautions (5.3)*]
- Effects on the ability to engage in potentially hazardous tasks [see *Warnings and Precautions (5.5)*]
- The risk of an increase in blood pressure [see *Warnings and Precautions (5.8)* and

Adverse Reactions (6)]

- The risk of interactions [see *Contraindications (4)*, *Warnings and Precautions (5.7, 5.9)* and *Drug Interactions (7)*]

See also, for example, *Adverse Reactions (6)* and *Use in Specific Populations (8)*.

The patients must also be informed about

- the potential for developing tolerance and actions if they suspect development of tolerance [see *Warnings and Precautions (5.4)*] and
- the risk of dependence and the potential consequences of abuse [see *Warnings and Precautions (5.6)*, *Drug Abuse and Dependence (9)*, and *Overdosage (10)*].

Tell patients to keep phentermine in a safe place to prevent theft, accidental overdose, misuse or abuse. Selling or giving away phentermine may harm others and is against the law.

Distributed by:
Lannett Company, Inc.
Philadelphia, PA 19154
Made in the USA

CIB70554C

Rev. 04/2017

PRINCIPAL DISPLAY PANEL - 15 mg 100 count

NDC 0527-1742-01

Phentermine HCl Capsules, USP CIV

15 mg

(gray/orange)

Rx Only

100 CAPSULES

Lannett

Each capsule contains:
15 mg of Phentermine HCl, USP
(equivalent to 12 mg of
Phentermine base).

USUAL DOSAGE: See package
Insert for complete prescribing
information.

Dispense in a tight container
as defined in the USP with a
child-resistant closure.

Protect from moisture.

Keep tightly closed.

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

**KEEP THIS AND ALL MEDICATION
OUT OF THE REACH OF CHILDREN.**

This bottle has been sealed for
your protection.

NDC 0527-1742-01

Phentermine HCl Capsules, USP

15 mg



(Gray/Orange)



Rx Only

100 CAPSULES

Lannett

Distributed by:
Lannett Company, Inc.
Philadelphia, PA 19136
Made in the USA



N 3 0527-1742-01 8

Rev. 05/16 CIB70871B

PRINCIPAL DISPLAY PANEL - 30 mg 100 count, blue/natural

NDC 0527-1308-01

Phentermine HCl Capsules, USP CIV

30 mg

(blue/natural)

Rx Only

100 CAPSULES

Lannett

Each capsule contains:
30 mg of Phentermine HCl, USP
(equivalent to 24 mg of Phentermine base).

USUAL DOSAGE: See package Insert for
complete prescribing information.

Dispense in a tight container
as defined in the USP with a
child-resistant closure.

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

**KEEP THIS AND ALL MEDICATION
OUT OF THE REACH OF CHILDREN.**

This bottle has been sealed for
your protection.

NDC 0527-1308-01

Phentermine HCl Capsules, USP

30 mg



(blue/natural)



Rx Only

100 CAPSULES

Lannett

Distributed by:
Lannett Company, Inc.
Philadelphia, PA 19136
Made in the USA



N 3 0527-1308-01 6

Rev. 05/16 CIB70557B

PRINCIPAL DISPLAY PANEL - 30 mg 100 count, yellow

NDC 0527-1310-01

Phentermine HCl Capsules, USP CIV

30 mg

(yellow)

Rx Only

100 CAPSULES

Lannett

Each capsule contains:
30 mg of Phentermine HCl, USP
(equivalent to 24 mg of Phentermine base).

USUAL DOSAGE: See package insert for complete prescribing information.

Dispense in a tight container as defined in the USP with a child-resistant closure.

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

KEEP THIS AND ALL MEDICATION OUT OF THE REACH OF CHILDREN.

This bottle has been sealed for your protection.

NDC 0527-1310-01

Phentermine HCl Capsules, USP

30 mg CIV

(yellow)

Rx Only

100 CAPSULES

Lannett

Distributed by:
Lannett Company, Inc.
Philadelphia, PA 19136
Made in the USA

Rev. 05/16 CIB70559B

N 3 0527-1310-01 9

PRINCIPAL DISPLAY PANEL - 30 mg 100 count, black

NDC 0527-0597-01

Phentermine HCl Capsules, USP CIV

30 mg

(black)

Rx Only

100 CAPSULES

Lannett

Each capsule contains:
30 mg of Phentermine HCl, USP
(equivalent to 24 mg of Phentermine base).

USUAL DOSAGE: See package insert for complete prescribing information.

Dispense in a tight container as defined in the USP with a child-resistant closure.

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

KEEP THIS AND ALL MEDICATION OUT OF THE REACH OF CHILDREN.

This bottle has been sealed for your protection.

NDC 0527-0597-01

Phentermine HCl Capsules, USP

30 mg CIV

(black)

Rx Only

100 CAPSULES

Lannett

Distributed by:
Lannett Company, Inc.
Philadelphia, PA 19136
Made in the USA

Rev. 05/16 CIB70555B

N 3 0527-0597-01 5

PRINCIPAL DISPLAY PANEL - 30 mg 100 count, blue/clear

NDC 0527-1438-01

Lannett

**PHENTERMINE
HYDROCHLORIDE CIV
CAPSULES, USP**

30 mg

(Blue/Clear)

Rx Only

100 CAPSULES

USUAL DOSAGE:

See package insert for full prescribing information.

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

Dispense in a tight container as defined in the USP with a child-resistant closure.

This bottle has been sealed for your protection. **KEEP TIGHTLY CLOSED.**

KEEP THIS AND ALL MEDICATION OUT OF THE REACH OF CHILDREN.

Rev. 05/12

10-931



NDC 0527-1438-01

Lannett

**PHENTERMINE
HYDROCHLORIDE CIV
CAPSULES, USP**

30 mg

(Blue/Clear)



Rx Only

100 CAPSULES

Each capsule contains:
Phentermine Hydrochloride, USP30 mg
(Equivalent to 24 mg phentermine base)

Inactive Ingredients:

Sugar spheres, hypromellose, polyethylene glycol, titanium dioxide, FD&C Blue No. 1 Aluminum Lake, polysorbate 80, FD&C Blue No. 2 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake, gelatin, FD&C Blue No. 1 and D&C Red No. 28. The capsule imprinting ink contains: shellac glaze in ethanol, iron oxide black, n-butyl alcohol, propylene glycol, ethanol, methanol, FD&C Blue # 2 Aluminum Lake, FD&C Red # 40 Aluminum Lake, FD&C Blue # 1 Aluminum Lake, and D&C Yellow # 10 Aluminum Lake.

Manufactured by:
Lannett Company, Inc.
Philadelphia, PA 19136

LCI™

Made in the USA

Lot No.:

Exp. Date:

PHENTERMINE HYDROCHLORIDE

phentermine hydrochloride capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0527-1742
Route of Administration	ORAL	DEA Schedule	CIV

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PHENTERMINE HYDROCHLORIDE (UNII: 0K2I5050TV) (PHENTERMINE - UNII:C045TQL4WP)	PHENTERMINE HYDROCHLORIDE	15 mg

Inactive Ingredients

Ingredient Name	Strength
STARCH, CORN (UNII: O8232NY3SJ)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
GELATIN (UNII: 2G86QN327L)	

D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	
FD&C RED NO. 40 (UNII: WZB9127XOA)	
FD&C YELLOW NO. 6 (UNII: H77VEI93A8)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FERROSFERRIC OXIDE (UNII: XM0M87F357)	
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)	
SHELLAC (UNII: 46N107B71O)	
BUTYL ALCOHOL (UNII: 8PJ61P6TS3)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
ALCOHOL (UNII: 3K9958V90M)	
METHYL ALCOHOL (UNII: Y4S76JW15)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
ALUMINUM OXIDE (UNII: LMI26O6933)	

Product Characteristics

Color	gray, orange	Score	no score
Shape	CAPSULE	Size	16mm
Flavor		Imprint Code	LANNETT;1742
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0527-1742-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	01/20/2012	
2	NDC:0527-1742-10	1000 in 1 BOTTLE; Type 0: Not a Combination Product	01/20/2012	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA087022	01/20/2012	

PHENTERMINE HYDROCHLORIDE

phentermine hydrochloride capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0527-1438
Route of Administration	ORAL	DEA Schedule	CIV

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
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PHENTERMINE HYDROCHLORIDE (UNII: 0K2I5050TV) (PHENTERMINE - UNII:C045TQL4WP)	PHENTERMINE HYDROCHLORIDE	30 mg
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Inactive Ingredients

Ingredient Name	Strength
SUCROSE (UNII: C151H8M554)	
STARCH, CORN (UNII: O8232NY3SJ)	
HYPROMELLOSES (UNII: 3NXW29V3WO)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
ALUMINUM OXIDE (UNII: LMI26O6933)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
FD&C YELLOW NO. 6 (UNII: H77VEI93A8)	
GELATIN (UNII: 2G86QN327L)	
D&C RED NO. 28 (UNII: 767IP0Y5NH)	
SHELLAC (UNII: 46N107B71O)	
ALCOHOL (UNII: 3K9958V90M)	
FERROSO FERRIC OXIDE (UNII: XM0M87F357)	
BUTYL ALCOHOL (UNII: 8PJ61P6TS3)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
METHYL ALCOHOL (UNII: Y4S76JW15)	
FD&C RED NO. 40 (UNII: WZB9127XOA)	
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	

Product Characteristics

Color	blue, white (blue/clear capsule filled with blue/white pellets)	Score	no score
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	LANNETT;1438
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0527-1438-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	07/19/2010	
2	NDC:0527-1438-10	1000 in 1 BOTTLE; Type 0: Not a Combination Product	07/19/2010	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA091359	07/19/2010	

PHENTERMINE HYDROCHLORIDE

phentermine hydrochloride capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0527-1310
Route of Administration	ORAL	DEA Schedule	CIV

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PHENTERMINE HYDROCHLORIDE (UNII: 0K2I505OTV) (PHENTERMINE - UNII:C045TQL4WP)	PHENTERMINE HYDROCHLORIDE	30 mg

Inactive Ingredients

Ingredient Name	Strength
STARCH, CORN (UNII: O8232NY3SJ)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
GELATIN (UNII: 2G86QN327L)	
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	
FD&C RED NO. 3 (UNII: PN2ZH5LOQY)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
SHELLAC (UNII: 46N107B71O)	
FERROSO FERRIC OXIDE (UNII: XM0M87F357)	
BUTYL ALCOHOL (UNII: 8PJ61P6TS3)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
ALCOHOL (UNII: 3K9958V90M)	
METHYL ALCOHOL (UNII: Y4S76JW15)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
FD&C RED NO. 40 (UNII: WZB9127XOA)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
ALUMINUM OXIDE (UNII: LMI26O6933)	

Product Characteristics

Color	yellow	Score	no score
Shape	CAPSULE	Size	16mm
Flavor		Imprint Code	LANNETT;1310
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0527-1310-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	12/01/2007	
2	NDC:0527-1310-	1000 in 1 BOTTLE; Type 0: Not a Combination	12/01/2007	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA087022	12/01/2007	

PHENTERMINE HYDROCHLORIDE

phentermine hydrochloride capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0527-1308
Route of Administration	ORAL	DEA Schedule	CIV

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PHENTERMINE HYDROCHLORIDE (UNII: 0K2I505OTV) (PHENTERMINE - UNII:C045TQL4WP)	PHENTERMINE HYDROCHLORIDE	30 mg

Inactive Ingredients

Ingredient Name	Strength
STARCH, CORN (UNII: 08232NY3SJ)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
GELATIN (UNII: 2G86QN327L)	
D&C RED NO. 28 (UNII: 767IP0Y5NH)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
SHELLAC (UNII: 46N107B71O)	
FERROSFERRIC OXIDE (UNII: XM0M87F357)	
BUTYL ALCOHOL (UNII: 8PJ61P6TS3)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
ALCOHOL (UNII: 3K9958V90M)	
METHYL ALCOHOL (UNII: Y4S76JW15)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
FD&C RED NO. 40 (UNII: WZB9127XOA)	
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	
ALUMINUM OXIDE (UNII: LMI26O6933)	

Product Characteristics

Color	blue (Natural/blue)	Score	no score
Shape	CAPSULE	Size	16mm
Flavor		Imprint Code	LANNETT;1308

Contains**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0527-1308-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	12/01/2007	
2	NDC:0527-1308-10	1000 in 1 BOTTLE; Type 0: Not a Combination Product	12/01/2007	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA087022	12/01/2007	

PHENTERMINE HYDROCHLORIDE

phentermine hydrochloride capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0527-0597
Route of Administration	ORAL	DEA Schedule	CIV

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PHENTERMINE HYDROCHLORIDE (UNII: 0K2I505OTV) (PHENTERMINE - UNII:C045TQL4WP)	PHENTERMINE HYDROCHLORIDE	30 mg

Inactive Ingredients

Ingredient Name	Strength
STARCH, CORN (UNII: O8232NY3SJ)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
GELATIN (UNII: 2G86QN327L)	
FD&C YELLOW NO. 6 (UNII: H77VEI93A8)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
FD&C RED NO. 40 (UNII: WZB9127XOA)	
SHELLAC (UNII: 46N107B71O)	
ALCOHOL (UNII: 3K9958V90M)	
ISOPROPYL ALCOHOL (UNII: ND2M416302)	
BUTYL ALCOHOL (UNII: 8PJ61P6TS3)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
AMMONIA (UNII: 5138Q19F1X)	
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)	

DIMETHICONE (UNII: 92RU3N3Y1O)

Product Characteristics

Color	black	Score	no score
Shape	CAPSULE	Size	16mm
Flavor		Imprint Code	LANNETT;0597
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0527-0597-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	12/01/2007	
2	NDC:0527-0597-10	1000 in 1 BOTTLE; Type 0: Not a Combination Product	12/01/2007	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA087022	12/01/2007	

Labeler - Lannett Company, Inc. (002277481)

Establishment

Name	Address	ID/FEI	Business Operations
Lannett Company, Inc.		006422406	analysis(0527-1438, 0527-1310, 0527-1308, 0527-0597, 0527-1742) , label(0527-1438, 0527-1310, 0527-1308, 0527-0597, 0527-1742) , manufacture(0527-1438, 0527-1310, 0527-1308, 0527-0597, 0527-1742) , pack(0527-1438, 0527-1310, 0527-1308, 0527-0597, 0527-1742)

Revised: 4/2017

Lannett Company, Inc.