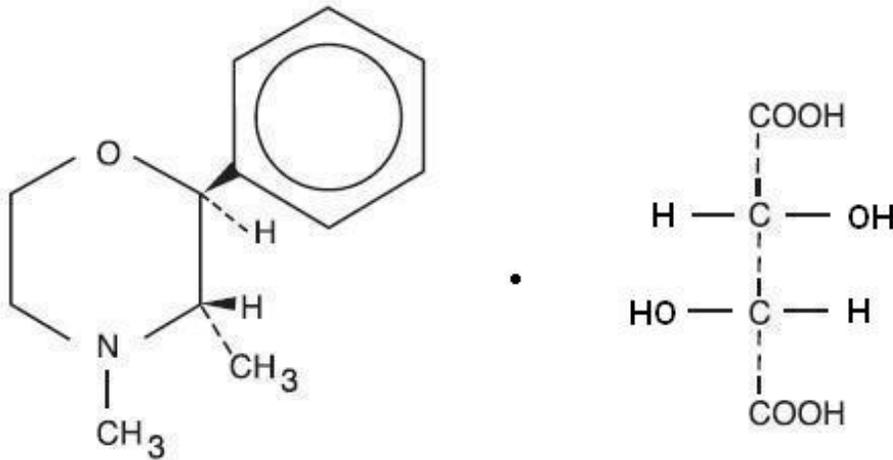


**PHENDIMETRAZINE TARTRATE ER- phendimetrazine tartrate capsule, extended release**  
**PHENDIMETRAZINE TARTRATE- phendimetrazine tartrate tablet**  
**H.J. Harkins Company, Inc.**

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**0282/0886 PHENDIMETRAZINE**

Phendimetrazine tartrate, as the dextro isomer, has the chemical name of (2S,3S)-3,4-Dimethyl-2-phenylmorpholine L-(+)- tartrate (1:1).

The structural formula is:



Phendimetrazine tartrate is a white, odorless crystalline powder. It is freely soluble in water; sparingly soluble in warm alcohol, insoluble in chloroform, acetone, ether and benzene.

Each white tablet, for oral administration, contains 35 mg of phendimetrazine tartrate. In addition, the following inactive ingredients are present: Colloidal Silicon Dioxide, Lactose Monohydrate, Magnesium Stearate, Microcrystalline Cellulose 102 and Sodium Starch Glycolate. The yellow tablet also contains FD&C Yellow # 5 Aluminum Lake (15-17%). The blue tablet also contains FD&C Blue # 1 Aluminum Lake (11-13%).

Phendimetrazine tartrate is a sympathomimetic amine with pharmacological activity similar to the prototype drugs of this class used in obesity, the amphetamines. Actions 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.

Drugs of this class used in obesity are commonly known as "anorectics" or "anorexigenics". It has not been established, however, that the action of such drugs in treating obesity is primarily one of appetite suppression. Other central nervous system actions or metabolic effects, may be involved for example.

Adult obese subjects instructed in dietary management and treated with anorectic drugs, lose more weight on the average than those treated with placebo and diet, as determined in relatively short term clinical trials.

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 origin of the increased weight loss due to the various drug effects is 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 drug 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 in 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.

The major route of elimination is via the kidneys where most of the drug and metabolites are excreted. Some of the drug is metabolized to phendimetrazine and phendimetrazine-N-oxide. The average half-life of elimination when studied under controlled conditions is about 3.7 hours for both the extended-release and immediate release forms. The absorption half-life of the drug from the immediate release 35 mg phendimetrazine tablets is appreciably more rapid than the absorption rate of the drug from the extended-release formulation.

Phendimetrazine tartrate is indicated in the management of exogenous obesity as a short term adjunct (a few weeks) in a regimen of weight reduction based on caloric restriction in patients with an initial body mass index (BMI) of 30 kg/m<sup>2</sup> or higher who have not responded to appropriate weight reducing regimen (diet and/or exercise) alone. 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 ÷ 2.2 = kg; inches x 0.0254 = meters.

**BODY MASS INDEX (BMI), kg/m<sup>2</sup> 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

Phendimetrazine tartrate is indicated for use as monotherapy only.

Known hypersensitivity or idiosyncratic reactions to sympathomimetics.

Advanced arteriosclerosis, symptomatic cardiovascular disease, moderate and severe hypertension, hyperthyroidism, and glaucoma.

Highly nervous or agitated patients.

Patients with a history of drug abuse.

Patients taking other CNS stimulants, including monoamine oxidase inhibitors.

**Phendimetrazine tartrate should not be used in combination with other anorectic agents, including prescribed drugs, over-the-counter preparations and herbal products.**

In a case-control epidemiological study, the use of anorectic agents, including phendimetrazine tartrate, was associated with an increased risk of developing pulmonary hypertension, a rare, but often fatal disorder. The use of anorectic agents for longer than three months was associated with a 23-fold increase in the risk of developing pulmonary hypertension. Increased risk of pulmonary hypertension with repeated courses of therapy cannot be excluded.

The onset or aggravation of exertional dyspnea, or unexplained symptoms of angina pectoris, syncope, or lower extremity edema suggest the possibility of occurrence of pulmonary hypertension. Under these circumstances, phendimetrazine tartrate should be immediately discontinued, and the patient should be evaluated for the possible presence of pulmonary hypertension.

**Valvular heart disease associated with the use of some anorectic agents such as fenfluramine and dexfenfluramine has been reported. Possible contributing factors include use for extended periods of time, higher than recommended dose, and/or use in combination with other anorectic drugs. However, no cases of this valvulopathy have been reported when phendimetrazine tartrate has been used alone.**

The potential risk of possible serious adverse effects such as valvular heart disease and pulmonary hypertension should be assessed carefully against the potential benefit of weight loss. Baseline cardiac evaluation should be considered to detect pre-existing valvular heart diseases or pulmonary hypertension prior to initiation of phendimetrazine treatment. Phendimetrazine tartrate is not recommended in patients with known heart murmur or valvular heart disease. Echocardiogram during and after treatment could be useful for detecting any valvular disorders which may occur. To limit unwarranted exposure and risks, treatment with phendimetrazine tartrate should be continued only if the patient has satisfactory weight loss within the first 4 weeks of treatment (i.e., weight loss of at least 4 pounds, or as determined by the physician and patient).

Tolerance to the anorectic effect of phendimetrazine develops within a few weeks. When this occurs, its use should be discontinued; the maximum recommended dose should not be exceeded.

Use of phendimetrazine tartrate within 14 days following the administration of monoamine oxidase inhibitors may result in a hypertensive crisis.

Abrupt cessation of administration following prolonged high dosage results in extreme fatigue and depression. Because of the effect on the central nervous system, phendimetrazine tartrate 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.

Phendimetrazine tartrate is not recommended for patients who used any anorectic agents within the prior year.

Caution is to be exercised in prescribing phendimetrazine for patients with even mild hypertension.

Insulin requirements in diabetes mellitus may be altered in association with the use of phendimetrazine tartrate and the concomitant dietary regimen.

Phendimetrazine tartrate may decrease the hypotensive effect of guanethidine. The least amount feasible should be prescribed or dispensed at one time in order to minimize the possibility of overdose.

Only yellow tablet contains FD&C Yellow No. 5 (tartrazine) which may cause allergic-type reactions (including bronchial asthma) in certain susceptible persons. Although the overall incidence of FD&C Yellow No. 5 (tartrazine) sensitivity in the general population is low, it is frequently seen in patients who also have aspirin hypersensitivity.

### **Drug Interactions:**

Efficacy of phendimetrazine tartrate with other anorectic agents has not been studied and the combined use may have the potential for serious cardiac problems.

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

Studies with Phendimetrazine Tartrate have not been performed to evaluate carcinogenic potential, mutagenic potential or effects on fertility.

### **Pregnancy: Pregnancy Category C:**

Animal reproduction studies have not been conducted with phendimetrazine tartrate. It is also not known

whether phendimetrazine tartrate can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity.

### **Usage in Pregnancy:**

Safe use in pregnancy has not been established. Until more information is available, phendimetrazine tartrate should not be taken by women who are or may become pregnant unless, in the opinion of the physician, the potential benefits outweigh the possible hazards.

### **Nursing Mothers:**

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, phendimetrazine tartrate should not be taken by women who are nursing unless, in the opinion of the physician, the potential benefits outweigh the possible hazards.

### **Pediatric Use:**

Safety and effectiveness in pediatric patients have not been established.

## **ADVERSE REACTIONS:**

**Cardiovascular:** Palpitations, tachycardia, elevated blood pressure, ischemic events.

Valvular heart disease associated with the use of some anorectic agents such as fenfluramine and dexfenfluramine, both independently and especially when used in combination with other anorectic drugs, have been reported. However, no case of this valvulopathy has been reported when phendimetrazine tartrate has been used alone.

### **Central Nervous System:**

Overstimulation, restlessness, insomnia, agitation, flushing, tremor, sweating, dizziness, headache, psychotic state, blurring of vision.

### **Gastrointestinal:**

Dryness of the mouth, nausea, diarrhea, constipation, stomach pain.

### **Genitourinary:**

Urinary frequency, dysuria, changes in libido.

## **DRUG ABUSE AND DEPENDENCE:**

### **Controlled Substance:**

Phendimetrazine tartrate tablets are a Schedule III controlled substance.

### **Dependence:**

Phendimetrazine tartrate is related chemically and pharmacologically to the amphetamines. Amphetamines and related stimulant drugs have been extensively abused, and the possibility of abuse of phendimetrazine should be kept in mind when evaluating the desirability of including a drug as part of a weight reduction program. 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 to many times that 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. The most severe manifestation of chronic intoxications is psychosis, often clinically indistinguishable from schizophrenia.

**OVERDOSAGE:**

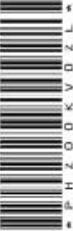
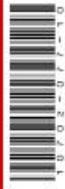
Acute overdosage with phendimetrazine tartrate may manifest itself by the following signs and symptoms: unusual restlessness, confusion, belligerence, hallucinations, and panic states. Fatigue and depression usually follow the central stimulation. Cardiovascular effects include arrhythmias, hypertension, or hypotension and circulatory collapse. Gastrointestinal symptoms include nausea, vomiting, diarrhea, and abdominal cramps. Poisoning may result in convulsions, coma, and death.

The management of overdosage is largely symptomatic. It includes sedation with a barbiturate. If hypertension is marked, the use of a nitrate or rapid-acting alpha receptor-blocking agent should be considered. Experience with hemodialysis or peritoneal dialysis is inadequate to permit recommendations for its use.

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

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F)

**PACKAGE LABEL.PRINCIPAL DISPLAY PANEL**

<b>52959-282-42</b>	RX Only: #XXXXXXXX	#XXX	CAUTION: Federal law PROHIBITS the transfer of this drug to anyone other than the person to whom prescribed and prohibits dispensing without a prescription unless OTC. See outsert for add'l RX info KEEP OUT OF REACH OF CHILDREN. Store in a cool dry place 68 to 77 degrees F.
<b>PHENDIMETRAZINE TART. 35mgTAB.</b>			<b>3</b>
Lot #: PHZ00KV	Mfg: KVK-TECH	Compare to: Bontril	
Exp: 10/12	Mfg Newtown, PA	Mfg. NDC: 10702-077-10	
Loc.:		Pill ID: Round yellow tablets	
	Take as directed by your Doctor or See outsert for usual dosage information		
			PHENDIMETRAZINE TART. 35mgTAB. 52959-282-42 Qty #42 10/12 Lot PHZ00KV Bontril 10702-077-10
			PHENDIMETRAZINE TART. 35mgTAB. 52959-282-42 Qty #42 10/12 Lot PHZ00KV Bontril 10702-077-10
			PHENDIMETRAZINE TART. 35mgTAB. 52959-282-42 Qty #42 10/12 Lot PHZ00KV Bontril 10702-077-10
Repack: HJ Harkins Co., Inc. Nipomo, CA 93444 Dispense in tight, child & light-resistant container per USP			

**3**

CAUTION: federal Law PROHIBITS the transfer of this drug to anyone other than the person whom prescribed and prohibits dispensing without a prescription, unless OTC. See outsert for add'l Rx info. KEEP OUT OF REACH OF CHILDREN Store in a cool, dry place at 68-77 F unless printed otherwise.

52959-0886-XX

PHENDIMETRA TAR. E.R. 105mg CAP #XX

Compare: Bontril SR

Exp. 00/00 Lot#: AB00CD

Mfg. SANDOZ 00185-5254-10

ACCOUNT: 00-0000

Use As Directed by Physician

PHENDIMETRA TAR. E.R. 105mg CAP

NDC: 52959-0886-XX

QTY: #XX

Exp. 00/00

Lot#: AB00CD

MFG NDC 00185-5254-10

NDC:

QTY:

Exp. 00/00

Lot#: AB00CD

MFG NDC

NDC:

QTY:

Exp. 00/00

Lot#: AB00CD

MFG NDC

NDC:

QTY:

Exp. 00/00

Lot#: AB00CD

MFG NDC

Repack: H.J. Harkins Co., Inc. Grover Beach, CA 93433

**PHENDIMETRAZINE TARTRATE ER**

phendimetrazine tartrate capsule, extended release

**Product Information**

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:52959-886
Route of Administration	ORAL	DEA Schedule	CIII

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
PHENDIMETRAZINE TARTRATE (UNII: 6985IP0T80) (PHENDIMETRAZINE - UNII:AB2794W8KV)	PHENDIMETRAZINE TARTRATE	105 mg

**Product Characteristics**

Color	brown (Brown/Clear)	Score	no score
Shape	CAPSULE	Size	19 mm
Flavor		Imprint Code	E5254
Contains			

**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:52959-886-14	14 in 1 BOTTLE; Type 0: Not a Combination Product	06/19/2007	
2	NDC:52959-886-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	06/19/2007	

3	NDC:52959-886-07	7 in 1 BOTTLE; Type 0: Not a Combination Product	06/19/2007
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## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA018074	06/19/2007	

## PHENDIMETRAZINE TARTRATE

phendimetrazine tartrate tablet

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:52959-282
Route of Administration	ORAL	DEA Schedule	CIII

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PHENDIMETRAZINE TARTRATE (UNII: 6985IP0T80) (PHENDIMETRAZINE - UNII:AB2794W8KV)	PHENDIMETRAZINE TARTRATE	35 mg

### Inactive Ingredients

Ingredient Name	Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
FD&C YELLOW NO. 5 (UNII: I753WB2F1M)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	

### Product Characteristics

Color	yellow	Score	2 pieces
Shape	ROUND	Size	7mm
Flavor		Imprint Code	K;77
Contains			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:52959-282-07	7 in 1 BOTTLE; Type 0: Not a Combination Product	09/15/2010	
2	NDC:52959-282-14	14 in 1 BOTTLE; Type 0: Not a Combination Product	09/15/2010	
3	NDC:52959-282-21	21 in 1 BOTTLE; Type 0: Not a Combination Product	09/15/2010	
4	NDC:52959-282-28	28 in 1 BOTTLE; Type 0: Not a Combination Product	09/15/2010	
5	NDC:52959-282-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	09/15/2010	
6	NDC:52959-282-35	35 in 1 BOTTLE; Type 0: Not a Combination Product	09/15/2010	

7	NDC:52959-282-42	42 in 1 BOTTLE; Type 0: Not a Combination Product	09/15/2010	
8	NDC:52959-282-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	09/15/2010	
9	NDC:52959-282-90	90 in 1 BOTTLE; Type 0: Not a Combination Product	09/15/2010	

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA091042	09/15/2010	

**Labeler** - H.J. Harkins Company, Inc. (147681894)

## Establishment

Name	Address	ID/FEI	Business Operations
H.J. Harkins Company, Inc.		147681894	relabel(52959-282, 52959-886) , repack(52959-282, 52959-886) , manufacture(52959-886, 52959-282)

Revised: 9/2018

H.J. Harkins Company, Inc.