

DIPHENHYDRAMINE HYDROCHLORIDE- diphenhydramine hydrochloride elixir

Bellevue Bioscience LLC

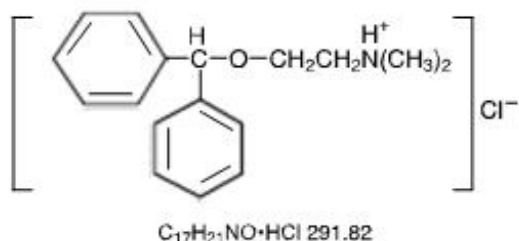
Diphenhydramine Hydrochloride Oral Elixir, USP

Rx ONLY

DESCRIPTION

Diphenhydramine hydrochloride is an antihistamine drug having the chemical name 2-(diphenylmethoxy)-N,N-dimethylethylamine hydrochloride and has the molecular formula $C_{17}H_{21}NO \cdot HCl$ (molecular weight 291.82). It occurs as a white odorless, crystalline powder and is freely soluble in water and alcohol.

The structural formula is as follows:



Each 5 mL contains 12.5 mg of diphenhydramine hydrochloride and alcohol 14% for oral administration. Inactive Ingredients: alcohol, cherry flavor, citric acid, methylparaben, monoammonium glycyrrhizinate, potassium citrate, propylene glycol, propylparaben, purified water, sorbitol, and sucralose.

CLINICAL PHARMACOLOGY

Diphenhydramine hydrochloride is an antihistamine with anticholinergic (drying) and sedative effects. Antihistamines appear to compete with histamine for cell receptor sites on effector cells.

A single oral dose of diphenhydramine hydrochloride is quickly absorbed with maximum activity occurring in approximately one hour. The duration of activity following an average dose of diphenhydramine hydrochloride is from four to six hours.

Diphenhydramine is widely distributed throughout the body, including the CNS. Little, if any, is excreted unchanged in the urine; most appears as the degradation products of metabolic transformation in the liver, which are almost completely excreted within 24 hours.

INDICATIONS AND USAGE

Diphenhydramine hydrochloride in the oral form is effective for the following indications:

Antihistaminic

For allergic conjunctivitis due to foods; mild, uncomplicated allergic skin manifestations

of urticaria and angioedema; amelioration of allergic reactions to blood or plasma; dermatographism; as therapy for anaphylactic reactions *adjunctive* to epinephrine and other standard measures after the acute manifestations have been controlled.

Motion Sickness

For active and prophylactic treatment of motion sickness.

Antiparkinsonism

For parkinsonism (including drug-induced) in the elderly unable to tolerate more potent agents; mild cases of parkinsonism (including drug-induced) in other age groups; in other cases of parkinsonism (including drug-induced) in combination with centrally acting anticholinergic agents.

Nighttime Sleep-aid.

CONTRAINDICATIONS

Use in Neonates or Premature Infants

This drug should *not* be used in neonates or premature infants.

Use in Nursing Mothers

Because of the higher risk of antihistamines for infants generally, and for neonates and prematures in particular, antihistamine therapy is contraindicated in nursing mothers.

Antihistamines are also contraindicated in the following conditions

Hypersensitivity to diphenhydramine hydrochloride and other antihistamines of similar chemical structure.

WARNINGS

Antihistamines should be used with considerable caution in patients with narrow-angle glaucoma, stenosing peptic ulcer, pyloroduodenal obstruction, symptomatic prostatic hypertrophy, or bladder-neck obstruction.

Use in Pediatric Patients

In pediatric patients, especially, antihistamines in *overdosage* may cause hallucinations, convulsions, or death. As in adults, antihistamines may diminish mental alertness in pediatric patients. In the young pediatric patient, particularly, they may produce excitation.

Use in the Elderly (approximately 60 years or older)

Antihistamines are most likely to cause dizziness, sedation, and hypotension in elderly patients.

PRECAUTIONS

General

Diphenhydramine hydrochloride has an atropine-like action and therefore, should be used with caution in patients with a history of bronchial asthma, increased intraocular pressure, hyperthyroidism, cardiovascular disease or hypertension. Use with caution in patients with lower respiratory disease including asthma.

Information for Patients

Patients taking diphenhydramine hydrochloride should be advised that this drug may cause drowsiness and has an additive effect with alcohol. Patients should be warned about engaging in activities requiring mental alertness such as driving a car or operating appliances, machinery, etc.

Drug Interactions

Diphenhydramine hydrochloride has additive effects with alcohol and other CNS depressants (hypnotics, sedatives, tranquilizers, etc.). MAO inhibitors prolong and intensify the anticholinergic (drying) effects of antihistamines.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term studies in animals to determine mutagenic and carcinogenic potential have not been performed.

Pregnancy

Pregnancy Category B

Reproduction studies have been performed in rats and rabbits at doses up to 5 times the human dose and have revealed no evidence of impaired fertility or harm to the fetus due to diphenhydramine hydrochloride. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Pediatric Use

Diphenhydramine hydrochloride should not be used in neonates and premature infants (see **CONTRAINDICATIONS**).

Diphenhydramine hydrochloride may diminish mental alertness, or, in the young pediatric patient, cause excitation.

Overdosage may cause hallucinations, convulsions, or death (see **WARNINGS and OVERDOSAGE**).

See also DOSAGE AND ADMINISTRATION section.

ADVERSE REACTIONS

The most frequent adverse reactions are underscored.

- *General:* Urticaria, drug rash, anaphylactic shock, photosensitivity, excessive perspiration, chills, dryness of the mouth, nose and throat.
- *Cardiovascular System:* Hypotension, headache, palpitations, tachycardia, extrasystoles.

- *Hematologic System:* Hemolytic anemia, thrombocytopenia, agranulocytosis.
- *Nervous System:* Sedation, sleepiness, dizziness, disturbed coordination, fatigue, confusion, restlessness, excitation, nervousness, tremor, irritability, insomnia, euphoria, paresthesia, blurred vision, diplopia, vertigo, tinnitus, acute labyrinthitis, neuritis, convulsions.
- *GI System:* Epigastric distress, anorexia, nausea, vomiting, diarrhea, constipation.
- *GU System:* Urinary frequency, difficult urination, urinary retention, early menses.
- *Respiratory System:* Thickening of bronchial secretions, tightness of chest or throat and wheezing, nasal stuffiness.

To report SUSPECTED ADVERSE REACTIONS, contact Belleview Bioscience, LLC at 1-352-549-9917 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OVERDOSAGE

Antihistamine overdose reactions may vary from central nervous system depression to stimulation. Stimulation is particularly likely in pediatric patients. Atropine-like signs and symptoms, dry mouth; fixed, dilated pupils; flushing and gastrointestinal symptoms may also occur.

If vomiting has not occurred spontaneously, the patient should be induced to vomit. This is best done by having them drink a glass of water or milk after which they should be made to gag. Precaution against aspiration must be taken, especially in infants and children.

If vomiting is unsuccessful, gastric lavage is indicated within 3 hours after ingestion and even later if large amounts of milk or cream were given beforehand. Isotonic or 1/2 isotonic saline is the lavage solution of choice.

Saline cathartics, as milk of magnesia, by osmosis draw water into the bowel and therefore are valuable for their action in rapid dilution of bowel content.

Stimulants should not be used.

Vasopressors may be used to treat hypotension.

DOSAGE AND ADMINISTRATION

DOSAGE SHOULD BE INDIVIDUALIZED ACCORDING TO THE NEEDS AND THE RESPONSE OF THE PATIENT.

A single oral dose of diphenhydramine hydrochloride is quickly absorbed with maximum activity occurring in approximately one hour. The duration of activity following an average dose of diphenhydramine hydrochloride is from four to six hours.

Adults

25 mg to 50 mg three to four times daily. The nighttime sleep-aid dosage is 50 mg at bedtime.

Pediatric Patients, other than premature infants and neonates

12.5 mg to 25 mg three or four times daily. Maximum daily dosage not to exceed 300 mg. For physicians who wish to calculate the dose on the basis of body weight or surface area, the recommended dosage is 5 mg/kg/24 hours or 150 mg/m²/24 hours.

Data are not available on the use of diphenhydramine hydrochloride as a nighttime sleep-aid in children under 12 years.

The basis for determining the most effective dosage regimen will be the response of the patient to medication and the condition under treatment.

In motion sickness, full dosage is recommended for prophylactic use, the first dose to be given 30 minutes before exposure to motion and similar doses before meals and upon retiring for the duration of exposure.

STORAGE

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

HOW SUPPLIED

Each 5 mL of Diphenhydramine Hydrochloride Oral Elixir, USP (clear, cherry flavor) contains 12.5 mg diphenhydramine hydrochloride with 14% alcohol and is supplied in the following oral dosage forms:

NDC 84447-128-01: 200,000 mL Bulk Drum

Rx Only

Manufactured by:

Bellevue Bioscience, LLC

Brooksville, FL 34604

BELLEVUE
BIO  **SCIENCE**

PRINCIPAL DISPLAY PANEL - Bulk Drum Label

BULK SHIPMENT

CAUTION: FOR REPACKAGING ONLY

NDC 84447-128-01

Diphenhydramine HCl Elixir

12.5 mg/5 mL
200,000 mL

NDC 84447-128-01
Diphenhydramine Elixir
12.5 mg / 5 mL
200,000 mL

Lot:
Mfg:

BULK SHIPMENT
PLEASE HANDLE CAREFULLY

Contains:
12.5mg Diphenhydramine HCl per 5 mL; Inactive
Ingredients: Cherry Flavor, Citric Acid, Ethanol,
Methylparaben, Monoammonium Glycyrhizinate,
Potassium Citrate, Propylene Glycol, Propylparaben,
Purified Water, Sorbitol, Sucralose

Sugar, Alcohol, Gluten and Dye Free

CAUTION:
FOR REPACKAGING ONLY
Store at controlled room temperature 15°-30°C (59°- 86°F)

Density of g/mL

BELLEVUE
BIOSCIENCE
Manufactured by:
Bellevue Biosciences LLC.
Brooksville, FL 34604

Gross wt:	_____
Tare wt:	_____
Net wt:	_____
Drum:	_____ of _____

DIPHENHYDRAMINE HYDROCHLORIDE

diphenhydramine hydrochloride elixir

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:84447-128
Route of Administration	ORAL		
Active Ingredient/Active Moiety			
Ingredient Name		Basis of Strength	Strength
DIPHENHYDRAMINE HYDROCHLORIDE (UNII: TC2D6JAD40) (DIPHENHYDRAMINE - UNII:8GTS82S83M)		DIPHENHYDRAMINE HYDROCHLORIDE	12.5 mg in 5 mL
Inactive Ingredients			
Ingredient Name			Strength
SORBITOL (UNII: 506T60A25R)			
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)			
ALCOHOL (UNII: 3K9958V90M)			
ANHYDROUS CITRIC ACID (UNII: XF417D3PSL)			
CHERRY (UNII: BUC5I9595W)			
METHYLPARABEN (UNII: A2I8C7HI9T)			
WATER (UNII: 059QF0KO0R)			

AMMONIUM GLYCYRRHIZATE (UNII: 3VRD35U26C)	
POTASSIUM CITRATE (UNII: EE90ONI6FF)	
PROPYLPARABEN (UNII: Z8IX2SC1OH)	
SUCRALOSE (UNII: 96K6UQ3ZD4)	

Product Characteristics

Color		Score	
Shape		Size	
Flavor	CHERRY	Imprint Code	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:84447-128-01	200000 mL in 1 DRUM; Type 0: Not a Combination Product	02/10/2025	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA087513	02/10/1982	

Labeler - Belleview Bioscience LLC (131968803)

Establishment

Name	Address	ID/FEI	Business Operations
Belleview Bioscience LLC		131968803	manufacture(84447-128)

Revised: 6/2025

Belleview Bioscience LLC