

MECLIZINE HYDROCHLORIDE- meclizine hydrochloride tablet

American Health Packaging

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use MECLIZINE HYDROCHLORIDE TABLETS safely and effectively. See full prescribing information for MECLIZINE HYDROCHLORIDE TABLETS.

MECLIZINE hydrochloride tablets, for oral use

Initial U.S. Approval: 1957

INDICATIONS AND USAGE

Meclizine hydrochloride tablets are indicated for the treatment of vertigo associated with diseases affecting the vestibular system in adults (1).

DOSAGE AND ADMINISTRATION

- Recommended dosage: 25 mg to 100 mg daily, in divided doses (2.1).
- Tablets: Swallow whole (2.2).

DOSAGE FORMS AND STRENGTHS

- Tablets: 12.5 mg and 25 mg (3).

CONTRAINDICATIONS

Meclizine hydrochloride tablets are contraindicated in patients with hypersensitivity to meclizine or any of the inactive ingredients (4).

WARNINGS AND PRECAUTIONS

- May cause drowsiness: Use caution when driving a car or operating dangerous machinery (5.1).
- Potential anticholinergic action: this drug should be prescribed with care to patients with a history of asthma, glaucoma, or enlargement of the prostate gland (5.2).

ADVERSE REACTIONS

Common adverse reactions are anaphylactic reaction, drowsiness, dry mouth, headache, fatigue, and vomiting. On rare occasions blurred vision has been reported (6).

To report SUSPECTED ADVERSE REACTIONS, contact Amneal Pharmaceuticals at 1-877-835-5472 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Co-administration of meclizine hydrochloride with other CNS depressants, including alcohol, may result in increased CNS depression (7.1).
- CYP2D6 inhibitors: As meclizine is metabolized by CYP2D6, there is a potential for drug-drug interactions between meclizine hydrochloride and CYP2D6 inhibitors (7.2).

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 8/2021

FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

2.2 Administration Instructions

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

5.1 Drowsiness

5.2 Concurrent Medical Conditions

6 ADVERSE REACTIONS

7 DRUG INTERACTIONS

7.1 CNS Depressants

7.2 CYP2D6 Inhibitors

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

8.2 Lactation

8.4 Pediatric Use

8.5 Geriatric Use

8.6 Hepatic Impairment

8.7 Renal Impairment

8.8 Genetic CYP2D6 Polymorphism

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

12.2 Pharmacodynamics

12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

16.2 Storage and Handling

17 PATIENT COUNSELING INFORMATION

* Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Meclizine hydrochloride tablets are indicated for the treatment of vertigo associated with diseases affecting the vestibular system in adults.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

The recommended dosage is 25 mg to 100 mg daily administered orally, in divided doses, depending upon clinical response.

2.2 Administration Instructions

Tablets

Meclizine hydrochloride tablets must be swallowed whole.

3 DOSAGE FORMS AND STRENGTHS

- Meclizine hydrochloride tablets USP, 12.5 mg are light blue colored, oval shaped tablets with “AN 441” debossed on one side and plain on the other side.
- Meclizine hydrochloride tablets USP, 25 mg are light yellow colored, oval shaped tablets with “AN 442” debossed on one side and plain on the other side.

4 CONTRAINDICATIONS

Meclizine hydrochloride tablets are contraindicated in patients with a hypersensitivity to meclizine or any of the inactive ingredients [see *Adverse Reactions (6) and Description (11)*].

5 WARNINGS AND PRECAUTIONS

5.1 Drowsiness

Since drowsiness may occur with use of meclizine hydrochloride, patients should be warned of this possibility and cautioned against driving a car or operating dangerous machinery.

Patients should avoid alcoholic beverages while taking meclizine hydrochloride [see *Drug Interactions (7.1)*].

5.2 Concurrent Medical Conditions

Because of its potential anticholinergic action, meclizine hydrochloride should be used with caution in patients with asthma, glaucoma, or enlargement of the prostate gland.

6 ADVERSE REACTIONS

The following adverse reactions associated with the use of meclizine hydrochloride were identified in clinical studies or post-marketing reports. Because some of these reactions were reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Anaphylactic reaction, drowsiness, dry mouth, headache, fatigue, and vomiting. On rare occasions blurred vision has been reported.

7 DRUG INTERACTIONS

7.1 CNS Depressants

There may be increased CNS depression when meclizine hydrochloride is administered concurrently with other CNS depressants, including alcohol [see *Warnings and Precautions (5.1)*].

7.2 CYP2D6 Inhibitors

Based on *in-vitro* evaluation, meclizine is metabolized by CYP2D6. Therefore, there is a possibility for a drug interaction between meclizine hydrochloride and CYP2D6 inhibitors.

Therefore, monitor for adverse reactions and clinical effect accordingly.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Data from epidemiological studies have not generally indicated a drug-associated risk of major birth defects with meclizine during pregnancy. However, in a published study, an increased incidence of fetal malformations was observed following oral administration of meclizine to pregnant rats during the period of organogenesis, at doses similar to those used clinically. 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. The background risk of major birth defects and miscarriage for the indicated population is unknown.

Data

Human Data

Epidemiological studies reporting on pregnancies exposed to meclizine have not identified an association between the use of meclizine during pregnancy and an increased risk of major birth defects.

Animal Data

In a published study, oral administration of meclizine (25 mg/kg to 250 mg/kg) to pregnant rats during the period of organogenesis resulted in a high incidence of fetal malformations. These effects occurred at doses as low as 25 mg/kg, which is approximately 2 times the maximum recommended human dose (100 mg) on a body surface area (mg/m²) basis.

8.2 Lactation

Risk Summary

There are no data on the presence of meclizine in human milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for meclizine hydrochloride and any potential adverse effects on the breastfed infant from meclizine hydrochloride 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 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.

8.6 Hepatic Impairment

The effect of hepatic impairment on the pharmacokinetics of meclizine has not been evaluated. As meclizine hydrochloride undergoes metabolism, hepatic impairment may

result in increased systemic exposure of meclizine. Treatment with meclizine hydrochloride should be administered with caution in patients with hepatic impairment.

8.7 Renal Impairment

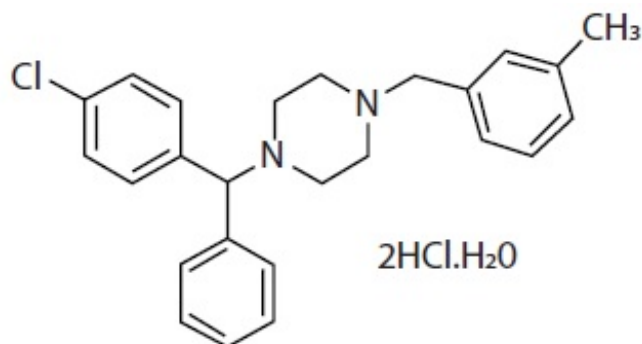
The effect of renal impairment on the pharmacokinetics of meclizine has not been evaluated. Because of a potential for drug/metabolite accumulation, meclizine hydrochloride should be administered with caution in patients with renal impairment and in the elderly, as renal function generally declines with age.

8.8 Genetic CYP2D6 Polymorphism

The genetic polymorphism of CYP2D6 that results in poor-, intermediate-, extensive-, and ultrarapid metabolizer phenotypes could contribute to large inter-individual variability in meclizine exposure. Therefore, when meclizine hydrochloride is administered to patients with CYP2D6 polymorphism, monitor for adverse reactions and clinical effect accordingly.

11 DESCRIPTION

Meclizine hydrochloride, a histamine (H₁) receptor antagonist, is a white or slightly yellowish, crystalline powder. Its molecular formula is C₂₅H₂₇ClN₂•2HCl•H₂O and its molecular weight is 481.88. It has the following structural formula:



Chemically, meclizine hydrochloride is 1-(*p*-chloro- α -phenylbenzyl)-4-(*m*-methylbenzyl) piperazine dihydrochloride monohydrate.

Each meclizine hydrochloride 12.5 mg tablet contains 12.5 mg of meclizine dihydrochloride equivalent to 10.53 mg of meclizine free base.

Each meclizine hydrochloride 25 mg tablet contains 25 mg of meclizine dihydrochloride equivalent to 21.07 mg of meclizine free base.

Inactive ingredients for the tablets are: colloidal silicon dioxide, lactose monohydrate, magnesium stearate, microcrystalline cellulose, sodium starch glycolate and talc. The 12.5 mg tablets also contain FD&C Blue #1 Aluminum Lake. The 25 mg tablets also contain D&C Yellow #10 Aluminum Lake.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The precise mechanism by which meclizine exerts its therapeutic effect is unknown but is presumed to involve antagonism of the histamine H₁ receptor.

12.2 Pharmacodynamics

There are no relevant pharmacodynamic data regarding meclizine.

12.3 Pharmacokinetics

The available pharmacokinetic information for meclizine following oral administration has been summarized from published literature.

Absorption

Meclizine is absorbed after oral administration with maximum plasma concentrations reaching at a median T_{max} value of 3 hours post-dose (range: 1.5 to 6 hours) for the tablet dosage form.

Distribution

Drug distribution characteristics for meclizine in humans are unknown.

Elimination

Meclizine has a plasma elimination half-life of about 5 to 6 hours in humans.

Metabolism

In an *in vitro* metabolic study using human hepatic microsome and recombinant CYP enzyme, CYP2D6 was found to be the dominant enzyme for metabolism of meclizine.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Animal studies to assess the carcinogenic potential of meclizine have not been conducted.

Mutagenesis

Genetic toxicology studies of meclizine have not been conducted.

Impairment of Fertility

Animal studies to assess the effects of meclizine on fertility and early embryonic development have not been conducted.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Meclizine Hydrochloride Tablets USP, **12.5 mg** are supplied as light blue colored, oval shaped tablets with "AN 441" debossed on one side and plain on the other side.

They are available as follows:

Unit dose packages of 100 (10 x 10) NDC 60687-775-01

Unit dose packages of 50 (5 x 10) NDC 60687-775-65

Meclizine Hydrochloride Tablets USP, **25 mg** are supplied as light yellow colored, oval

shaped tablets with “AN 442” debossed on one side and plain on the other side.

They are available as follows:

Unit dose packages of 100 (10 x 10) NDC 60687-730-01

Unit dose packages of 50 (5 x 10) NDC 60687-730-65

16.2 Storage and Handling

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

FOR YOUR PROTECTION: Do not use if blister is torn or broken.

Keep this and all medication out of the reach of children.

17 PATIENT COUNSELING INFORMATION

Administration Instructions

Advise patients that the tablets must be swallowed whole [see *Dosage and Administration (2.1)*].

Adverse Reactions

Advise patients that meclizine hydrochloride may cause anaphylactic reaction, drowsiness, dry mouth, headache, fatigue, vomiting and, on rare occasions, blurred vision [see *Warnings and Precautions (5.1)*, *Adverse Reactions (6)*].

Inform patients that meclizine hydrochloride may impair their ability to engage in potentially dangerous activities, such as operating machinery or vehicles.

Concomitant Drug Interactions

Advise patients regarding medications that should not be taken in combination with meclizine hydrochloride or that may necessitate increased monitoring [see *Drug Interactions (7.1, 7.2)*]. Inform patients that alcohol may increase adverse reactions.

Concurrent Medical Conditions

Advise patients to notify their healthcare provider about all of their medical conditions, including if they are pregnant or plan to become pregnant or if they are breastfeeding [see *Warnings and Precautions (5.2)*, *Use in Specific Populations (8.1, 8.2)*].

PACKAGING INFORMATION

American Health Packaging unit dose blisters (see How Supplied section) contain drug product from Amneal Pharmaceuticals LLC as follows:

(12.5 mg / 100 UD) NDC 60687-775-01 packaged from NDC 53746-441

(12.5 mg / 50 UD) NDC 60687-775-65 packaged from NDC 53746-441

(25 mg / 100 UD) NDC 60687-730-01 packaged from NDC 53746-442

(25 mg / 50 UD) NDC 60687-730-65 packaged from NDC 53746-442

Distributed by:

American Health Packaging

Columbus, OH 43217

8473001/1023F

Package/Label Display Panel - Carton - 12.5 mg, 50 UD

NDC 60687-775-65

**Meclizine
Hydrochloride**
Tablets, USP

12.5 mg*

50 Tablets (5 x 10) Rx Only



(01) 0 03 60687 775 65 4

NDC 60687-775-65

**Meclizine
Hydrochloride**
Tablets, USP

12.5 mg*

50 Tablets (5 x 10) Rx Only

***Each Tablet Contains:**
Meclizine dihydrochloride, USP 12.5 mg
(equivalent to 10.53 mg of meclizine free base.)

Usual Dosage: See full prescribing information.

VERTIGO: 25 mg to 100 mg in divided doses daily depending on the clinical response.

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

FOR YOUR PROTECTION: Do not use if blister is torn or broken.

The drug product contained in this package is from NDC # 53746-441, Amneal Pharmaceuticals LLC.

Distributed by: American Health Packaging, Columbus, Ohio 43217

Scan for current Prescribing Information → 

777565
0477565/1023

NDC 60687- 775-65

**Meclizine
Hydrochloride**
Tablets, USP

12.5 mg*

50 Tablets (5 x 10)

Rx Only

***Each Tablet Contains:**

Meclizine dihydrochloride, USP12.5 mg
(equivalent to 10.53 mg of meclizine free base.)

Usual Dosage: See full prescribing information.

VERTIGO: 25 mg to 100 mg in divided doses daily depending on the clinical response.

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Distributed by: American Health Packaging, Columbus, Ohio 43217

777565

0477565/1023

Package/Label Display Panel - Carton - 12.5 mg, 100 UD

NDC 60687-775-01

Meclizine Hydrochloride

Tablets, USP

12.5 mg*

100 Tablets (10 x 10)

Rx Only



(01) 0 03 60687 775 01 2

NDC 60687-775-01

Meclizine Hydrochloride

Tablets, USP

12.5 mg*

100 Tablets (10 x 10)

Rx Only

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Meclizine Dihydrochloride, USP..... 12.5 mg
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VERTIGO: 25 mg to 100 mg in divided doses daily depending on the clinical response.

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Keep this and all drugs out of reach of children.

FOR YOUR PROTECTION: Do not use if blister is torn or broken.

The drug product contained in this package is from NDC # 53746-441, Amneal Pharmaceuticals LLC.

Scan for
Current
Labeling



Distributed by:
American Health Packaging
Columbus, Ohio 43217

777501
0477501/0623

NDC 60687- 775-01

Meclizine Hydrochloride

Tablets, USP

12.5 mg*

100 Tablets (10 x 10)

Rx Only

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Distributed by:
American Health Packaging
Columbus, Ohio 43217

777501
0477501/0623

Package/Label Display Panel - Blister - 12.5 mg

Meclizine
Hydrochloride
Tablet, USP 12.5 mg

(01) 003 60687 775 11 1
American Health Packaging, Columbus, Ohio 43217

Expiry: xx/xx
Lot: xxxxxxxx

Expiry: xx/xx
Lot: xxxxxxxx

Meclizine
Hydrochloride
Tablet, USP 12.5 mg

(01) 003 60687 775 11 1
American Health Packaging, Columbus, Ohio 43217

Meclizine
Hydrochloride
Tablet, USP 12.5 mg

(01) 003 60687 775 11 1
American Health Packaging, Columbus, Ohio 43217

Expiry: xx/xx
Lot: xxxxxxxx

Expiry: xx/xx
Lot: xxxxxxxx

Meclizine
Hydrochloride
Tablet, USP 12.5 mg

(01) 003 60687 775 11 1
American Health Packaging, Columbus, Ohio 43217

Meclizine
Hydrochloride
Tablet, USP 12.5 mg

(01) 003 60687 775 11 1
American Health Packaging, Columbus, Ohio 43217

Expiry: xx/xx
Lot: xxxxxxxx

Expiry: xx/xx
Lot: xxxxxxxx

Meclizine
Hydrochloride
Tablet, USP 12.5 mg

(01) 003 60687 775 11 1
American Health Packaging, Columbus, Ohio 43217

Meclizine
Hydrochloride
Tablet, USP 12.5 mg

(01) 003 60687 775 11 1
American Health Packaging, Columbus, Ohio 43217

Expiry: xx/xx
Lot: xxxxxxxx

Expiry: xx/xx
Lot: xxxxxxxx

Meclizine
Hydrochloride
Tablet, USP 12.5 mg


(01) 003 60687 775 11 1
American Health Packaging, Columbus, Ohio 43217

Meclizine
Hydrochloride
Tablet, USP 12.5 mg

(01) 003 60687 775 11 1
American Health Packaging, Columbus, Ohio 43217

Expiry: xx/xx
Lot: xxxxxxxx

Expiry: xx/xx
Lot: xxxxxxxx

Meclizine
Hydrochloride
Tablet, USP 12.5 mg

(01) 003 60687 775 11 1
American Health Packaging, Columbus, Ohio 43217

Meclizine
Hydrochloride

Tablet, USP **12.5 mg**


Package/Label Display Panel - Carton - 25 mg, 50UD

NDC 60687-**730**-65

**Meclizine
Hydrochloride**
Tablets, USP

25 mg*

50 Tablets (5 x 10) Rx Only



(01) 0 03 60687 730 65 3

NDC 60687-**730**-65

**Meclizine
Hydrochloride**
Tablets, USP

25 mg*

50 Tablets (5 x 10) Rx Only

***Each Tablet Contains:**
Meclizine dihydrochloride, USP 25 mg
(equivalent to 21.07 mg of meclizine free base.)

Usual Dosage: See full prescribing information.


VERTIGO: 25 mg to 100 mg in divided doses daily depending on the clinical response.

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

FOR YOUR PROTECTION: Do not use if blister is torn or broken.

The drug product contained in this package is from NDC # 53746-442, Amneal Pharmaceuticals LLC.

Distributed by: American Health Packaging, Columbus, Ohio 43217

Scan for current Prescribing Information → 

773065
0473065/1023

NDC 60687- **730**-65

**Meclizine
Hydrochloride**
Tablets, USP

25 mg*

50 Tablets (5 x 10)

Rx Only

***Each Tablet Contains:**

Meclizine dihydrochloride, USP 25 mg
(equivalent to 21.07 mg of meclizine free base.)

Usual Dosage: See full prescribing information.

VERTIGO: 25 mg to 100 mg in divided doses daily depending on the clinical response.

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The drug product contained in this package is from
NDC # 53746-442, Amneal Pharmaceuticals LLC.

Distributed by: American Health Packaging, Columbus, Ohio 43217

773065

0473065/1023

Package/Label Display Panel - Carton - 25 mg, 100 UD

NDC 60687-730-01

Meclizine Hydrochloride

Tablets, USP

25 mg*

100 Tablets (10 x 10)

Rx Only



(01) 0 03 60687 730 01 1

NDC 60687-730-01

Meclizine Hydrochloride

Tablets, USP

25 mg*

100 Tablets (10 x 10)

Rx Only

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NDC # 53746-442, Amneal Pharmaceuticals LLC.

Distributed by: American Health Packaging, Columbus, Ohio 43217

Scan for current
Prescribing Information →



773001
0473001/1123

NDC 60687- 730-01

Meclizine Hydrochloride

Tablets, USP

25 mg*

100 Tablets (10 x 10)

Rx Only

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(equivalent to 21.07 mg of meclizine free base.)

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VERTIGO: 25 mg to 100 mg in divided doses daily depending on the clinical response.

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

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Distributed by: American Health Packaging, Columbus, Ohio 43217

773001

0473001/1123

Package/Label Display Panel - Blister - 25 mg



Meclizine
Hydrochloride
Tablet, USP

25 mg

MECLIZINE HYDROCHLORIDE

meclizine hydrochloride tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:60687-775(NDC:53746-441)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
MECLIZINE HYDROCHLORIDE (UNII: HDP7W44CIO) (MECLIZINE - UNII:3L5TQ84570)	MECLIZINE HYDROCHLORIDE	12.5 mg

Inactive Ingredients

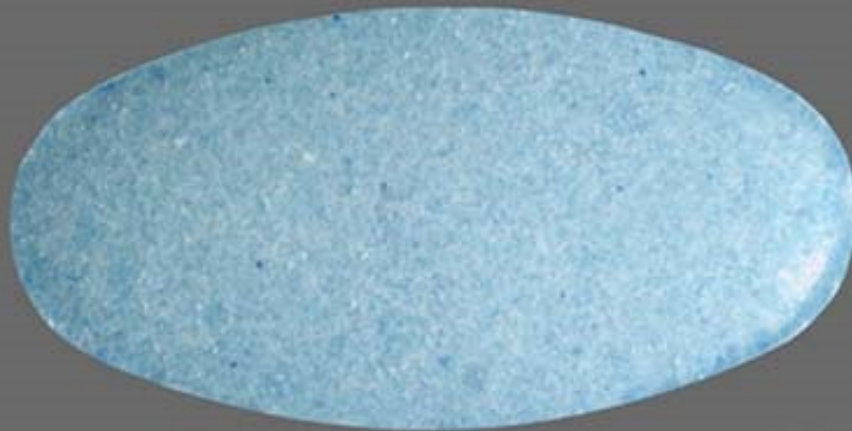
Ingredient Name	Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
TALC (UNII: 7SEV7J4R1U)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	

Product Characteristics

Color	blue (light)	Score	no score
Shape	OVAL	Size	10mm
Flavor		Imprint Code	AN;441
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:60687-775-01	100 in 1 CARTON	09/08/2023	
1	NDC:60687-775-11	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		
2	NDC:60687-775-65	50 in 1 CARTON	12/15/2023	
2	NDC:60687-775-11	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		



Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA201451	09/08/2023	

MECLIZINE HYDROCHLORIDE

meclizine hydrochloride tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:60687-730(NDC:53746-442)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
MECLIZINE HYDROCHLORIDE (UNII: HDP7W44CIO) (MECLIZINE - UNII:3L5TQ84570)	MECLIZINE HYDROCHLORIDE	25 mg

Inactive Ingredients

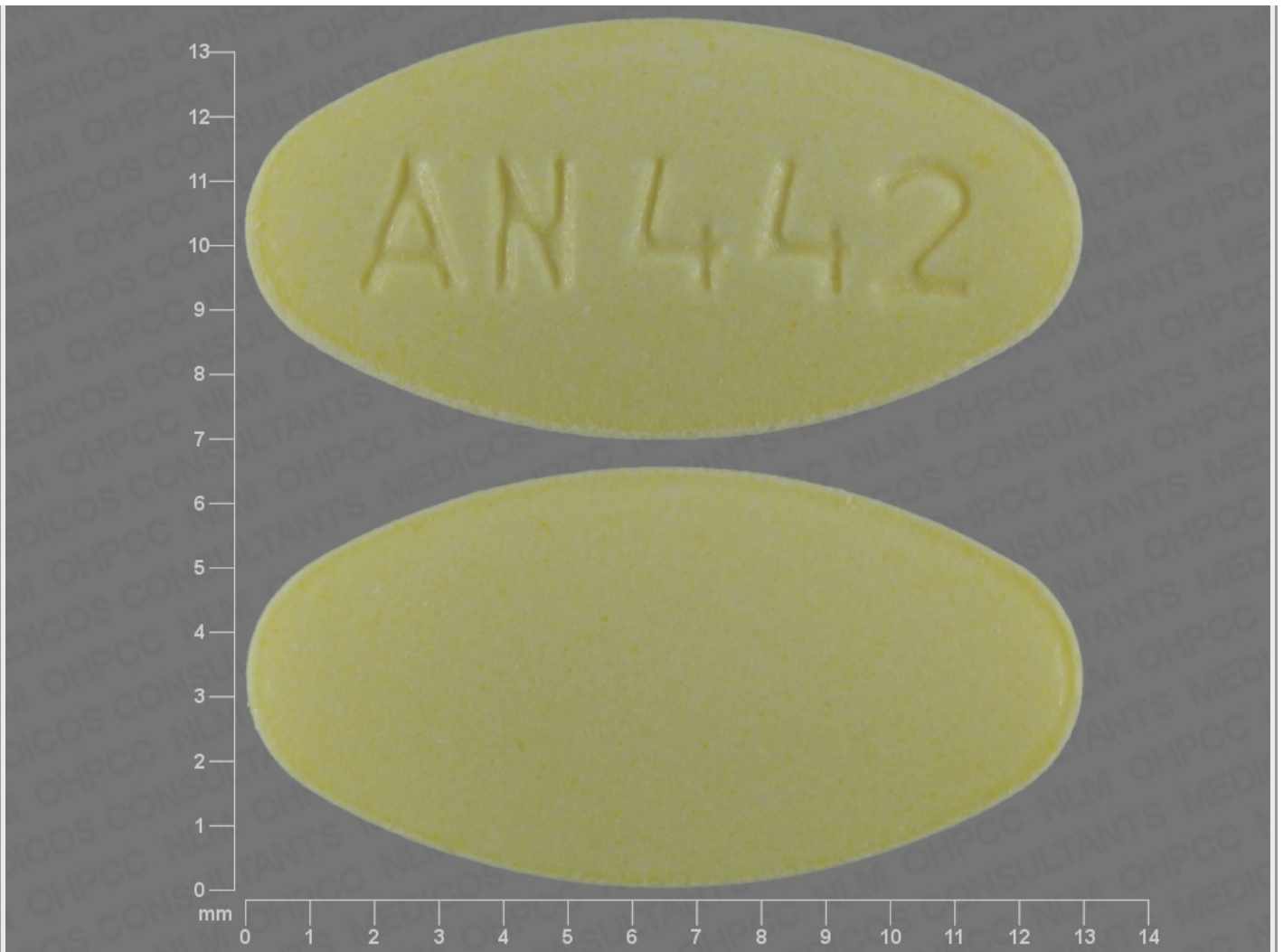
Ingredient Name	Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
TALC (UNII: 7SEV7J4R1U)	
D&C YELLOW NO. 10 ALUMINUM LAKE (UNII: CQ3XH3DET6)	

Product Characteristics

Color	yellow (light)	Score	no score
Shape	OVAL	Size	13mm
Flavor		Imprint Code	AN;442
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:60687-730-01	100 in 1 CARTON	04/20/2023	
1	NDC:60687-730-11	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		
2	NDC:60687-730-65	50 in 1 CARTON	12/15/2023	
2	NDC:60687-730-11	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		



Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA201451	04/20/2023	

Labeler - American Health Packaging (929561009)

Establishment

Name	Address	ID/FEI	Business Operations
American Health Packaging		929561009	repack(60687-730, 60687-775)

Revised: 12/2023

American Health Packaging