

**NAUS-EASE- meclizine hydrochloride film, soluble**  
**Sunasen Therapeutics LLC**

*Disclaimer: Most OTC drugs are not reviewed and approved by FDA, however they may be marketed if they comply with applicable regulations and policies. FDA has not evaluated whether this product complies.*

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**NAUS-EASE® (Meclizine Hydrochloride), USP; Film, Soluble - Product Information**

**ACTIVE INGREDIENTS**

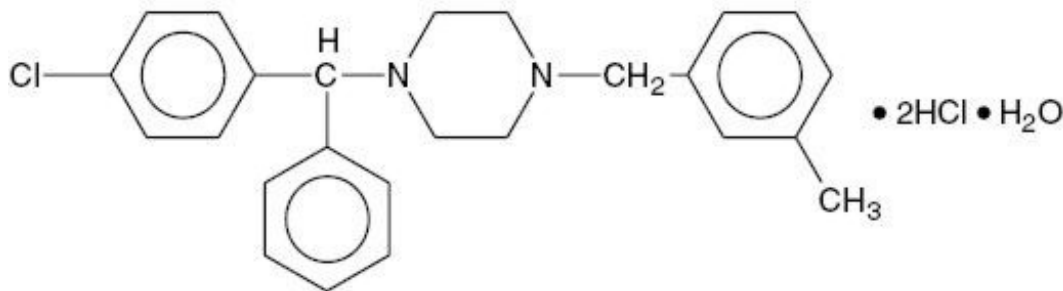
Meclizine Hydrochloride, USP 25 mg

**PURPOSE**

Antiemetic

**DESCRIPTION**

Chemically, Meclizine Hydrochloride, USP is 1-(*p*-Chloro- $\alpha$ -phenylbenzyl)-4-(*m*-methylbenzyl) piperazine dihydrochloride monohydrate. Meclizine Hydrochloride, USP is an oral antiemetic, which is a white to slightly yellowish crystalline powder having a slight odor and is tasteless. The molecular weight is 481.89 g/mol. It has the following structural formula:



C<sub>25</sub>H<sub>27</sub>ClN<sub>2</sub>•2HCl•H<sub>2</sub>O M.W. 481.88544 g/mol

**CLINICAL PHARMACOLOGY**

Meclizine Hydrochloride, USP is an antihistamine that shows marked protective activity against nebulized histamine and lethal doses of intravenously injected histamine in guinea pigs. It has a marked effect in blocking the vasodepressor response to histamine, but only a slight blocking action against acetylcholine. Its activity is relatively weak in inhibiting the spasmogenic action of histamine on isolated guinea pig ileum.

***Pharmacokinetics***

The available pharmacokinetic information for Meclizine Hydrochloride, USP following oral administration has been summarized from published literature.

***Absorption***

Meclizine Hydrochloride, USP is absorbed after oral administration with maximum plasma concentrations reaching at a median T<sub>max</sub> value of 3 hours post-dose (range: 1.5 to 6 hours) for the tablet dosage form.

### ***Distribution***

Drug distribution characteristics for Meclizine Hydrochloride, USP in humans remains unknown.

### ***Metabolism***

The metabolic fate of Meclizine Hydrochloride, USP in humans is unknown. In an in vitro metabolic study using human hepatic microsome and recombinant CYP enzyme, CYP 2D6 was found to be the dominant enzyme for metabolism of Meclizine Hydrochloride, USP.

The genetic polymorphism of CYP2D6 that results in extensive-, poor-, intermediate- and ultrarapid metabolizer phenotypes could contribute to large inter-individual variability in Meclizine Hydrochloride, USP exposure.

### ***Elimination***

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

## **INDICATIONS AND USAGE**

### ***For Consumers (the general public):***

Naus-Ease® (Meclizine Hydrochloride), USP Film Strips are used for the prevention and treatment of nausea and vomiting, or dizziness associated with motion sickness.

### ***For Health Professionals:***

Based on a review of Meclizine Hydrochloride, USP drug by the National Academy of Sciences – National Research Council and/or other information, FDA has classified the indications of Meclizine Hydrochloride, USP as follows:

1. The prevention and treatment (management) of nausea and vomiting, and dizziness associated with motion sickness.
2. For the treatment of vertigo.

## **CONTRAINDICATIONS**

Meclizine Hydrochloride, USP is contraindicated in individuals who have shown a previous hypersensitivity to it.

## **WARNINGS**

Clinical studies establishing safety and effectiveness in children under 12 years of age have not been done; therefore, usage is not recommended in children under 12 years of age unless directed by a doctor.

Due to its potential anticholinergic action, do not take unless directed by a doctor if you have a breathing problem such as asthma, emphysema, or chronic bronchitis, glaucoma, or difficulty in urination due to enlargement of the prostate gland.

Ask a doctor before use if you are taking sedatives or tranquilizers.

When using this product:

1. Do not exceed the recommended dosage.
2. May cause drowsiness.
3. Patients should avoid alcoholic beverages while taking this drug.
4. Since drowsiness may, on occasion, occur with use of this drug, patients should be warned of this possibility and cautioned against driving a car or operating dangerous machinery. Therefore patients are reminded caution when driving or operating machinery.
5. Alcohol, sedatives and tranquilizers may increase drowsiness.

If pregnant or breast-feeding, ask a health professional before use.

Keep out of reach of children. In case of overdose, seek medical help or contact a Poison Control Center right away.

Call Poison Control at 1-800-222-1222

## **PRECAUTIONS**

### ***Pediatric Use***

Clinical studies establishing safety and effectiveness in children under 12 years of age have not been done; therefore, usage is not recommended in children under 12 years of age unless directed by a doctor.

### ***Pregnancy Use***

Pregnancy Category B. Reproduction studies in rats have shown cleft palates at 25 to 50 times the human dose. Epidemiological studies in pregnant women, however, do not indicate that Meclizine Hydrochloride, USP increases the risk of abnormalities when administered during pregnancy. Despite the animal findings, it would appear that the possibility of fetal harm is remote. Nevertheless, Meclizine Hydrochloride, USP or any other medication, should be used during pregnancy only if clearly necessary, and after speaking with a health professional.

### ***Nursing Mothers***

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when Meclizine Hydrochloride, USP is administered to a nursing woman.

### ***Hepatic Impairment***

The effect of hepatic impairment on the pharmacokinetics of meclizine has not been evaluated. As Meclizine Hydrochloride, USP undergoes metabolism, hepatic impairment may result in increased systemic exposure of the drug. Treatment with Meclizine Hydrochloride, USP should be administered with caution in patients with hepatic impairment.

### ***Renal Impairment***

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

### ***Drug Interactions***

There may be increased CNS depression when Meclizine Hydrochloride, USP is administered concurrently with other CNS depressants, including alcohol, tranquilizers and sedatives. (see WARNINGS)

Based on in vitro evaluation, Meclizine Hydrochloride, USP is metabolized by CYP2D6. Therefore there is a possibility for a drug interaction between Meclizine Hydrochloride, USP and CYP2D6 inhibitors.

## **KEEP OUT OF REACH OF CHILDREN**

Keep out of reach of children. In case of an overdose, seek medical help or contact a Poison Control Center immediately.

Call Poison Control at 1-800-222-1222.

## **ADVERSE REACTIONS**

Anaphylactoid reaction, drowsiness, dry mouth, headache, fatigue, vomiting and, on rare occasions, blurred vision have been reported.

## **DOSAGE AND ADMINISTRATION (DIRECTIONS)**

Adults and children 12 years of age and over: Take 1 to 2 Naus-Ease® (Meclizine Hydrochloride), USP Film Strips (25 mg to 50 mg) once daily, or as directed by a physician. Place a film strip on the tongue. Allow each film strip to completely dissolve, and then swallow.

The initial dose of 25 mg to 50 mg of Naus-Ease® (Meclizine Hydrochloride), USP Film Strips should be taken one hour prior to travel for the prevention and treatment of motion sickness. Thereafter, the dose may be repeated every 24 hours for the duration of the journey.

## **INACTIVE INGREDIENTS**

Polyethylene oxide, Hydroxypropyl methylcellulose, Maltitol, Citric acid, Sodium citrate, and FD&C green #3.

## **HOW SUPPLIED**

Naus-Ease® (Meclizine Hydrochloride), USP Film Strips are available in 25mg strengths. Each Film Strip is individually wrapped in a pouch, and is available in 8 and 16 count package sizes.

25 mg (Green rectangular shaped, with "S1" printed on each film strip)

Naus-Ease® (Meclizine Hydrochloride), USP; 8 Film Strips: NDC 49467-104-01

Naus-Ease® (Meclizine Hydrochloride), USP; 16 Film Strips: NDC 49467-104-16

Distributed by:

Sunascen Therapeutics LLC

Rockville, MD 20850 USA

## **QUESTIONS OR COMMENTS?**

Sunascen Therapeutics LLC

PO Box 2773

Wilmington DE 19805

More information is available on the web at [www.nausease.com](http://www.nausease.com)

## **PRINCIPAL DISPLAY PANEL**

Naus-Ease® (Meclizine Hydrochloride), USP; Film Strips 25 mg Each

Antiemetic – Prevent and Treat: Nausea and Vomiting

**TAMPER EVIDENT: EACH FILM STRIP IS INDIVIDUALLY SEALED IN A POUCH. DO NOT USE IF INDIVIDUAL POUCH IS TORN, BROKEN, OR SHOWS ANY SIGNS OF TAMPERING.**

Note:

Store at controlled room temperature 20-30°C. (68-86°F)

Protect from heat and humidity

Use by the expiration date on the package

**NAUS~EASE.**

NDC 49467 - 104 - 01

**NAUS~EASE.**

MECLIZINE HYDROCHLORIDE - ANTIEMETIC

**PREVENT AND TREAT:  
NAUSEA & VOMITING**

LACTOSE AND GLUTEN FREE  
LASTS UP TO 24 HOURS  
LIME FLAVORED

8 FILM STRIPS  
(25 MG EACH)

Distributed by: Sumascen Therapeutics LLC  
Rockville, MD 20860 USA  
© 2012-2016 Sumascen Therapeutics LLC  
Patent Pending



Lot Number  
Expiration Date

TAMPER EVIDENT: EACH FILM STRIP IS INDIVIDUALLY SEALED IN A POUCH. DO NOT USE IF INDIVIDUAL POUCHES ARE TORN, BROKEN, OR SHOWS ANY SIGNS OF TAMPERING.



RETAIN CARTON FOR COMPLETE PRODUCT INFORMATION

<b>Drug Facts</b>	<b>Drug Facts (Continued)</b>
<b>Active ingredients (in each film strip)</b> Meclizine Hydrochloride, USP 25 mg	<b>Warnings (Continued)</b> <b>If pregnant or breast-feeding,</b> ask a health professional before use.
<b>Uses</b> For the prevention and treatment of nausea, vomiting, and dizziness associated with motion sickness.	<b>Keep out of reach of children.</b> In case of overdose, seek medical help or contact a Poison Control Center right away. Call Poison Control at 1-800-222-1222.
<b>Warnings</b> <b>Do not take unless directed by a doctor if you have a breathing problem</b> such as emphysema or chronic bronchitis; glaucoma, difficulty urinating due to an enlarged prostate gland.	<b>Directions</b> Adults and children 12 years of age and over: Take 1 to 2 film strips (25 mg to 50 mg) once daily, or as directed by a physician. Place a film strip on the tongue. Allow each film strip to completely dissolve, then swallow. For motion sickness, take within 1 hour prior to travel.
<b>Not for use in children</b> under 12 years of age unless directed by a doctor.	<b>Other information</b> • Store at controlled room temperature 20° - 30° C (68° - 86° F) • Protect from heat and humidity
<b>Ask a doctor or a pharmacist before use if you are taking</b> sedatives or tranquilizers.	<b>Inactive ingredients</b> Polyethylene oxide, hydroxypropyl methylcellulose, malic acid, sodium citrate, and FD & C green #6.
<b>When using this product</b> • Do not exceed the recommended dosage • May cause drowsiness • Avoid alcohol, beer, and beverages while taking this product • Alcohol, sedatives, and tranquilizers may increase drowsiness • Use caution when driving or operating machinery	<b>Questions or Comments?</b> P.O. Box 2773 Wilmington DE 19805 You can also visit us on the web at <a href="http://www.nausease.com">www.nausease.com</a>

**NAUS-EASE**

meclizine hydrochloride film, soluble

**Product Information**

<b>Product Type</b>	HUMAN OTC DRUG	<b>Item Code (Source)</b>	NDC:49467-104
<b>Route of Administration</b>	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
POLYETHYLENE GLYCOLS (UNII: 3WJQ0SDW1A)	
HYPROMELLOSES (UNII: 3NXW29V3WO)	
MALTITOL (UNII: D65DG142WK)	
ANHYDROUS CITRIC ACID (UNII: XF417D3PSL)	
ANHYDROUS TRISODIUM CITRATE (UNII: RS7A450LGA)	

## Product Characteristics

<b>Color</b>	green	<b>Score</b>	no score
<b>Shape</b>	RECTANGLE	<b>Size</b>	22mm
<b>Flavor</b>	LIME	<b>Imprint Code</b>	S1
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:49467-104-01	8 in 1 CARTON	04/16/2012	
1		1 in 1 POUCH; Type 0: Not a Combination Product		
2	NDC:49467-104-16	16 in 1 CARTON	04/16/2012	
2		1 in 1 POUCH; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
OTC monograph final	part336	04/16/2012	

**Labeler** - Sunascen Therapeutics LLC (078272834)

**Registrant** - Sunascen Therapeutics LLC (078272834)

## Establishment

Name	Address	ID/FEI	Business Operations
Sunascen Therapeutics LLC		078272834	label(49467-104)

Revised: 10/2016

Sunascen Therapeutics LLC