# ETHAMBUTOL HYDROCHLORIDE- ethambutol hydrochloride tablet, film coated Department of State Health Services, Pharmacy Branch

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Ethambutol Hydrochloride

**TABLETS USP** 

100 mg and 400 mg

**Rx Only** 

#### DESCRIPTION

ETHAMBUTOL HYDROCHLORIDE is an oral chemotherapeutic agent which is specifically effective against actively growing microorganisms of the genus *Mycobacterium*, including *M*. *tuberculosis*. The structural formula is:

(+)-2,2'(Ethylenediimino)-di-1-butanol dihydrochloride

ETHAMBUTOL HYDROCHLORIDE (HCI) 100 and 400 mg tablets contain the following inactive ingredients: Gelatin, Hydroxypropyl Methylcellulose, Magnesium Stearate, Sodium Lauryl Sulfate, Sorbitol, Stearic Acid, Sucrose, Titanium Dioxide and other ingredients.

# CLINICAL PHARMACOLOGY

ETHAMBUTOL HCI, following a single oral dose of 25 mg/kg of body weight, attains a peak of 2 to 5 mcg/mL in serum 2 to 4 hours after administration. When the drug is administered daily for longer periods of time at this dose, serum levels are similar. The serum level of ETHAMBUTOL falls to undetectable levels by 24 hours after the last dose except in some patients with abnormal renal function. The intracellular concentrations of erythrocytes reach peak values approximately twice those of plasma and maintain this ratio throughout the 24 hours. During the 24-hour period following oral administration of ETHAMBUTOL HCI approximately 50 percent of the initial dose is excreted unchanged in the urine, while an additional 8 to 15 percent appears in the form of metabolites. The main path of metabolism appears to be an initial oxidation of the alcohol to an aldehydic intermediate, followed by conversion to a dicarboxylic acid. From 20 to 22 percent of the initial dose is excreted in the feces as unchanged drug. No drug accumulation has been observed with consecutive single daily doses of 25 mg/kg in patients with normal kidney function, although marked accumulation has been demonstrated in patients with renal insufficiency.

ETHAMBUTOL diffuses into actively growing *Mycobacterium* cells such as tubercle bacilli. ETHAMBUTOL appears to inhibit the synthesis of one or more metabolites, thus causing impairment of cell metabolism, arrest of multiplication, and cell death. No cross resistance with other available antimycobacterial agents has been demonstrated.

ETHAMBUTOL has been shown to be effective against strains of *Mycobacterium tuberculosis* but does not seem to be active against fungi, viruses, or other bacteria. *Mycobacterium tuberculosis* strains previously unexposed to ETHAMBUTOL have been uniformly sensitive to concentrations of 8 or less mcg/mL, depending on the nature of the culture media. When ETHAMBUTOL has been used alone for treatment of tuberculosis, tubercle bacilli from these patients have developed resistance to

ETHAMBUTOL by in vitro susceptibility tests; the development of resistance has been unpredictable and appears to occur in a step-like manner. No cross resistance between ETHAMBUTOL and other antituberculous drugs has been reported. ETHAMBUTOL has reduced the incidence of the emergence of mycobacterial resistance to isoniazid when both drugs have been used concurrently. An agar diffusion microbiologic assay, based upon inhibition of *Mycobacterium smegmatis* (ATCC 607) may be used to determine concentrations of ETHAMBUTOL in serum and urine.

# ANIMAL PHARMACOLOGY

Toxicological studies in dogs on high prolonged doses produced evidence of myocardial damage and failure, and depigmentation of the tapetum lucidum of the eyes, the significance of which is not known. Degenerative changes in the central nervous system, apparently not dose-related, have also been noted in dogs receiving ETHAMBUTOL HCI over a prolonged period. In the rhesus monkey, neurological signs appeared after treatment with high doses given daily over a period of several months. These were correlated with specific serum levels of ETHAMBUTOL and with definite neuroanatomical changes in the central nervous system. Focal interstitial carditis was also noted in monkeys which received ETHAMBUTOL HCI in high doses for a prolonged period.

# INDICATIONS

ETHAMBUTOL HCI is indicated for the treatment of pulmonary tuberculosis. It should not be used as the sole antituberculous drug, but should be used in conjunction with at least one other antituberculous drug. Selection of the companion drug should be based on clinical experience, considerations of comparative safety, and appropriate in vitro susceptibility studies. In patients who have not received previous antituberculous therapy, ie, initial treatment, the most frequently used regimens have been the following:

- ETHAMBUTOL HCI plus isoniazid
- ETHAMBUTOL HCI plus isoniazid plus streptomycin.

In patients who have received previous antituberculous therapy, mycobacterial resistance to other drugs used in initial therapy is frequent. Consequently, in such retreatment patients, ETHAMBUTOL HCI should be combined with at least one of the second line drugs not previously administered to the patient and to which bacterial susceptibility has been indicated by appropriate in vitro studies. Antituberculous drugs used with ETHAMBUTOL HCI have included cycloserine, ethionamide, pyrazinamide, viomycin and other drugs. Isoniazid, aminosalicylic acid, and streptomycin have also been used in multiple drug regimens. Alternating drug regimens have also been utilized.

# CONTRAINDICATIONS

ETHAMBUTOL HCI is contraindicated in patients who are known to be hypersensitive to this drug. It is also contraindicated in patients with known optic neuritis unless clinical judgment determines that it may be used. ETHAMBUTOL HCI is contraindicated in patients who are unable to appreciate and report visual side effects or changes in vision (e.g., young children, unconscious patients).

# WARNINGS

ETHAMBUTOL may produce decreases in visual acuity which appear to be due to optic neuritis. This effect may be related to dose and duration of treatment. This effect is generally reversible when administration of the drug is discontinued promptly. However, irreversible blindness has been reported. (See **PRECAUTIONS** and **ADVERSE REACTIONS**).

Liver toxicities including fatalities have been reported (see **ADVERSE REACTIONS**). Baseline and periodic assessment of hepatic function should be performed.

# PRECAUTIONS

ETHAMBUTOL is not recommended for use in pediatric patients under thirteen years of age since safe conditions for use have not been established.

Patients with decreased renal function need the dosage reduced as determined by serum levels of ETHAMBUTOL, since the main path of excretion of this drug is by the kidneys.

Because this drug may have adverse effects on vision, physical examination should include ophthalmoscopy, finger perimetry and testing of color discrimination. In patients with visual defects such as cataracts, recurrent inflammatory conditions of the eye, optic neuritis, and diabetic retinopathy, the evaluation of changes in visual acuity is more difficult, and care should be taken to be sure the variations in vision are not due to the underlying disease conditions. In such patients, consideration should be given to relationship between benefits expected and possible visual deterioration since evaluation of visual changes is difficult. (For recommended procedures, see next paragraphs under **ADVERSE REACTIONS.**)

As with any potent drug, baseline and periodic assessment of organ system functions, including renal, hepatic, and hematopoietic, should be performed.

#### **Drug Interactions**

The results of a study of coadministration of ethambutol (50mg/kg) with an aluminum hydroxide containing antacid to 13 patients with tuberculosis showed a reduction of mean serum concentrations and urinary excretion of ethambutol of approximately 20% and 13%, respectively, suggesting that the oral absorption of ethambutol may be reduced by these antacid products. It is recommended to avoid concurrent administration of ethambutol with aluminum hydroxide containing antacids for at least 4 hours following ethambutol administration.

# Pregnancy

# Teratogenic Effects: Pregnancy Category C.

There are no adequate and well-controlled studies in pregnant women. There are reports of ophthalmic abnormalities occurring in infants born to women on antituberculous therapy that included ETHAMBUTOL HCI. ETHAMBUTOL HCI should be used during pregnancy only if the benefit justifies the potential risk to the fetus.

ETHAMBUTOL has been shown to be teratogenic in pregnant mice and rabbits when given in high doses. When pregnant mice or rabbits were treated with high doses of ETHAMBUTOl HCI, fetal mortality was slightly but not significantly (P>0.05) increased. Female rats treated with ETHAMBUTOL HCI displayed slight but insignificant (P>0.05) decreases in fertility and litter size. In fetuses born of mice treated with high doses of ETHAMBUTOL HCI during pregnancy, a low incidence of cleft palate, exencephaly and abnormality of the vertebral column were observed. Minor abnormalities of the cervical vertebra were seen in the newborn of rats treated with high doses of ETHAMBUTOL HCI during pregnancy. Rabbits receiving high doses of ETHAMBUTOL HCI during pregnancy gave birth to two fetuses with monophthalmia, one with a shortened right forearm accompanied by bilateral wristjoint contracture and one with hare lip and cleft palate.

# **Nursing Mothers**

ETHAMBUTOL is excreted into breast milk. The use of ETHAMBUTOL HCI should be considered only if the expected benefit to the mother outweighs the potential risk to the infant.

# Pediatric Use

ETHAMBUTOL HCI is not recommended for use in pediatric patients under thirteen years of age since safe conditions for use have not been established.

#### Geriatric Use

There are limited data on the use of ETHAMBUTOL HCI in the elderly. One study of 101 patients, 65 years and older, on multiple drug antituberculosis regimens included 94 patients on ETHAMBUTOL HCI. No differences in safety or tolerability were observed in these patients compared with that reported in adults in general. Other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

# **ADVERSE REACTIONS**

ETHAMBUTOL may produce decreases in visual acuity, including irreversible blindness, which appear to be due to optic neuritis. Optic neuropathy including optic neuritis or retrobulbar neuritis occurring in association with ethambutol therapy may be characterized by one or more of the following events: decreased visual acuity, scotoma, color blindness, and/or visual defect. These events have also been reported in the absence of a diagnosis of optic or retrobulbar neuritis.

Patients should be advised to report promptly to their physician any change of visual acuity.

The change in visual acuity may be unilateral or bilateral and hence each eye must be tested separately and both eyes tested together. Testing of visual acuity should be performed before beginning ETHAMBUTOL HCI therapy and periodically during drug administration, except that it should be done monthly when a patient is on a dosage of more than 15 mg per kilogram per day. Snellen eye charts are recommended for testing of visual acuity. Studies have shown that there are definite fluctuations of one or two lines of the Snellen chart in the visual acuity of many tuberculous patients not receiving ETHAMBUTOL HCI.

Initial	Reading	Significant	Decreased
Snellen	Indicating	Number	Number
Reading	Significant	of Lines	of Points
	Decrease		
20/13	20/25	3	12
20/15	20/25	2	10
20/20	20/30	2	10
20/25	20/40	2	15
20/30	20/50	2	20
20/40	20/70	2	30
20/50	20/70	1	20

The following table may be useful in interpreting possible changes in visual acuity attributable to ETHAMBUTOL.

In general, changes in visual acuity less than those indicated under "Significant Number of Lines" and "Decrease Number of Points" may be due to chance variation, limitations of the testing method, or physiologic variability. Conversely, changes in visual acuity equaling or exceeding those under "Significant Number of Lines" and "Decrease Number of Points" indicate need for retesting and careful evaluation of the patient's visual status. If careful evaluation confirms the magnitude of visual change and fails to reveal another cause, ETHAMBUTOL HCI should be discontinued and the patient reevaluated at frequent intervals. Progressive decreases in visual acuity during therapy must be considered to be due to ETHAMBUTOL.

If corrective glasses are used prior to treatment, these must be worn during visual acuity testing. During 1 to 2 years of therapy, a refractive error may develop which must be corrected in order to obtain accurate test results. Testing the visual acuity through a pinhole eliminates refractive error. Patients

developing visual abnormality during ETHAMBUTOL HCI treatment may show subjective visual symptoms before, or simultaneously with, the demonstration of decreases in visual acuity, and all patients receiving ETHAMBUTOL HCI should be questioned periodically about blurred vision and other subjective eye symptoms.

Recovery of visual acuity generally occurs over a period of weeks to months after the drug has been discontinued. Some patients have received ETHAMBUTOL HCI again after such recovery without recurrence of loss of visual acuity. Other adverse reactions reported include: hypersensitivity, anaphylactic/anaphylactoid reaction, dermatitis, erythema multiforme, pruritus, and joint pain; anorexia, nausea, vomiting, gastrointestinal upset, and abdominal pain; fever, malaise, headache, and dizziness; mental confusion, disorientation, and possible hallucinations; thrombocytopenia, leucopenia, and neutropenia. Numbness and tingling of the extremities due to peripheral neuritis have been reported. Elevated serum uric acid levels occur and precipitation of acute gout has been reported. Pulmonary infiltrates, with or without eosinophilia, also have been reported during ETHAMBUTOL HCI therapy. Liver toxicities, including fatalities, have been reported. (See WARNINGS). Since ETHAMBUTOL HCI is recommended for therapy in conjunction with one or more other antituberculous drugs, these changes may be related to the concurrent therapy. Hypersensitivity syndrome consisting of cutaneous reaction (such as rash or exfoliative dermatitis), eosinophilia, and one or more of the following: hepatitis, pneumonitis, nephritis, myocarditis, pericarditis. Fever and lymphadenopathy may be present.

# **DOSAGE and ADMINISTRATION**

ETHAMBUTOL HCI should not be used alone, in initial treatment or in tretreatment. ETHAMBUTOL HCI should be administered on a once every 24-hour basis only. Absorption is not significantly altered by administration with food. Therapy, in general, should be continued until bacteriological conversion has become permanent and maximal clinical improvement has occurred.

ETHAMBUTOL HCI is not recommended for use in pediatric patients under thirteen years of age since safe conditions for use have not been established.

**Initial Treatment:** In patients who have not received previous antituberculous therapy, administer ETHAMBUTOL HCI 15 mg/kg (7 mg/lb) of body weight, as a single oral dose once every 24 hours. In the more recent studies, isoniazid has been administered concurrently in a single, daily, oral dose.

**Retreatment:** In patients who have received previous antituberculous therapy, administer ETHAMBUTOL HCI 25 mg/kg (11 mg/lb) of body weight, as a single oral dose once every 24 hours. Concurrently administer at least one other antituberculous drug to which the organisms have been demonstrated to be susceptible by appropriate in vitro tests. Suitable drugs usually consist of those not previously used in the treatment of the patient. After 60 days of ETHAMBUTOL HCI administration, decrease the dose to 15 mg/kg (7mg/lb) of body weight, and administer as a single oral dose once every 24 hours.

During the period when a patient is on a daily dose of 25 mg/kg, monthly eye examinations are advised.

See Table for easy selection of proper weight-dose tablet(s).

	<u>15 mg/kg (7 mg/lb) Schedule</u>	
Weight Range	Dos	e
Pounds	Kilograms In m	g
Under 85	Under 37	500
85 – 94.5	37 – 43	600
95 – 109.5	43 – 50	700
110–124.5	50 – 57	800
125–139.5	57 – 64	

#### Weight-Dose Table

140–154.5	64 – 711000
155–169.5	71 – 791100
170 – 184.5	79 – 841200
185–199.5	84 – 901300
200-214.5	90 - 97
215 and Over	Over 971500
	<u>25 mg/kg (11 mg/lb) Schedule</u>
Under 85	Under 38900
85–92.5	38 – 421000
93 - 101.5	42 - 45.51100
102–109.5	45.5 – 501200
110 - 118.5	50 - 54
119 – 128.5	54 - 581400
129 – 136.5	58 - 621500
137 – 146.5	62 - 671600
147 – 155.5	$67 - 71 \dots 1700$
156 - 164.5	71 - 751800
165–173.5	75 - 791900
174–182.5	79 – 832000
183–191.5	83 – 872100
192–199.5	87 – 912200
200–209.5	91 – 952300
210-218.5	95 - 992400
219 and Over	Over 992500

#### HOW SUPPLIED

#### ETHAMBUTOL HYDROCHLORIDE TABLETS USP

100 mg – round, convex, white, film coated tablets engraved E6 on one side are supplied as follows: NDC 54879-001-00 - Carton of 10x10 Blister sheets & 54879-001-01 - Bottle of 100's

400 mg – round, convex, white, scored, film coated tablets engraved with E to the left and 7 to the right of the score on one side are supplied as follows: NDC 54879-002-00 - Carton of 10x10 Blister sheets & 54879-002-01 - Bottle of 100's

#### Store at controlled room temperature 20° to 25° C (68° to 77° F).

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

Manufactured For & Distributed by:

STI Pharma LLC. Langhorne, PA 19047

Iss. 08/12

#### **Package Labeling**

TX DEPT STATE HEALTH SVCS, PHR 8 7430 LOUIS PASTEUR DR 210-949-2000 SAN ANTONIO, TX 78229

DR.

DATE: NAME

TAKE .... TABLET(S) EACH DAY. MAY BE TAKEN WITH FOOD.

ETHAMBUTOL TAB 400 MG #100 VERSAPHARM PKG BY WP/TB Expire: 01/31/2018

Control: 5150314



Package Labeling

TX DEPT STATE HEALTH SVCS, PHR 4/5N 1517 W. FRONT ST. 903-533-5308 **TYLER, TX 75702** 

DR.

VM 77310

NAME

TAKE .... TABLET(S) EACH DAY. MAY BE TAKEN WITH FOOD.

ETHAMBUTOL TAB 100 MG #100 VERSAPHARM PKG BY WP/TB Expire: 10/31/2015

Control: HGSP12002A



DATE:

	ion						
Product T ype		HUMAN PRESCRIPTION DRUG	Item Code	e (Source)	NDC:556	95-035(NDC	:54879-002
Route of Administra	tion	ORAL					
Active Ingredient	Active Moie	ety					
	Ingr	edient Name		В	asis of St	rength	Strengt
ETHAMBUTOL HYDROCHLORIDE (UNII: QE4VW5FO07) (ETHAM UNII:8G167061QZ)		JNII: QE4VW5FO07) (ETHAMBU	TOL - ETHAMBUTO HYDROCHLO			E	400 mg
Inactive Ingredie	nts						
		Ingredient Name				Sti	rength
GELATIN (UNII: 2G860							
HYDROXYPROPYL C							
MAGNESIUM STEARA		,					
SODIUM LAURYL SUI		8GB5141J)					
SORBITOL (UNII: 506							
STEARIC ACID (UNII: 4							
CUCDOCE (UNIL C151)							
SUCROSE (UNII: C151H TITANIUM DIOXIDE (1		Р)					
		P)					
TITANIUM DIO XIDE (	UNII: 15FIX9V2J	P)					
	UNII: 15FIX9V2J		Score			2 pieces	3
TITANIUM DIO XIDE (1 Product Characte	UNII: 15FIX9V2J		Score Size			2 pieces 13mm	5
TITANIUM DIO XIDE (1 Product Characte Color	UNII: 15FIX9V2J ristics white (white)			ode			3
TITANIUM DIO XIDE (1 Product Characte Color Shape	UNII: 15FIX9V2J ristics white (white)		Size	ode		13mm	5
TITANIUM DIO XIDE (1 Product Characte Color Shape Flavor Contains	UNII: 15FIX9V2J ristics white (white)		Size	ode		13mm	5
TITANIUM DIO XIDE (1 Product Characte Color Shape Flavor Contains Packaging	UNII: 15FIX9V2J ristics white (white) ROUND (RO		Size Imprint Co	ode arketing St	art Date	13mm E7	
TITANIUM DIO XIDE (1 Product Characte Color Shape Flavor Contains Packaging # Item Code	UNII: 15FIX9V2J ristics white (white) ROUND (RO	UND)	Size Imprint Co		art Date	13mm E7	
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# ETHAMBUTOL HYDROCHLORIDE

ethambutol hydrochloride tablet, film coated

#### **Product Information**

		HUMAN PRESCRIPTION DI	RUG <b>Item</b>	Code (Source)	NDC:5569	95-023(NDC	.548/9-001)
Route of Administrat	ion	ORAL					
Active Ingredient	Active Moie	ety					
	Ingr	edient Name		]	Basis of St	rength	Strengt
		(UNII: QE4VW5FO07) (ETHAMBUTOL -			ETHAMBUTOL HYDROCHLORIDE		100 mg
Inactive Ingredie	nts						
		Ingredient Name				Sti	rength
<b>GELATIN</b> (UNII: 2G86Q	N327L)						
HYDROXYPROPYL CI	ELLULOSE (UN	III: RFW2ET671P)					
MAGNESIUM STEARA	<b>TE</b> (UNII: 70097	'M6I30)					
SODIUM LAURYL SUL		8GB5141J)					
SORBITOL (UNII: 5067							
STEARIC ACID (UNII: 4							
CUCDOCE (UNIL CIE 11)							
SUCROSE (UNII: C151H							
TITANIUM DIO XIDE (U		Р)					
		Р)					
TITANIUM DIO XIDE (U	JNII: 15FIX9V2J	P)					
TITANIUM DIO XIDE (U Product Characte	JNII: 15FIX9V2J	P)	Score			no score	
TITANIUM DIO XIDE (U Product Characte Color	JNII: 15FIX9V2J ristics		Score Size			no score 8mm	
TITANIUM DIO XIDE (U Product Characte Color Shape	JNII: 15FIX9V2J ristics white (white)		Size	nt Code			
TITANIUM DIO XIDE (U Product Characte Color Shape Flavor	JNII: 15FIX9V2J ristics white (white)		Size	nt Code		8 mm	
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Labeler - Department of State Health Services, Pharmacy Branch (781992540)