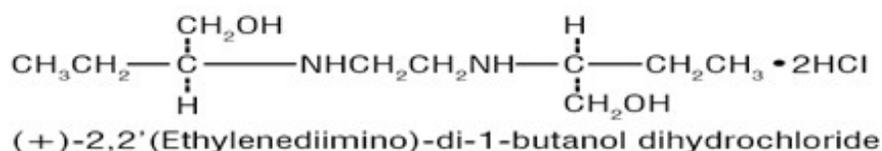


ETHAMBUTOL HYDROCHLORIDE- ethambutol hydrochloride tablet, film coated
Kanchan Healthcare Inc

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:



ETHAMBUTOL HYDROCHLORIDE (HCL) 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 HCL, 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 HCL 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 HCL 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 HCL diffuses into actively growing Mycobacterium cells such as tubercle bacilli. ETHAMBUTOL HCL 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 HCl 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 HCl have been uniformly sensitive to concentrations of 8 or less mcg/mL, depending on the nature of the culture media. When ETHAMBUTOL HCl has been used alone for treatment of tuberculosis, tubercle bacilli from these patients have developed resistance to ETHAMBUTOL HCl (ethambutol hydrochloride) 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 HCl and other antituberculous drugs has been reported. ETHAMBUTOL HCl 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 HCl 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 hydrochloride 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 hydrochloride in high doses for a prolonged period.

INDICATIONS

ETHAMBUTOL HCl 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 HCl plus isoniazid

ETHAMBUTOL HCl 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 HCl 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 HCl 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 HCl 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 HCl 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 HCl 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 HCl 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 HCl, 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 HCl (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 HCl. ETHAMBUTOL HCl should be used during pregnancy only if the benefit justifies the potential risk to the fetus.

ETHAMBUTOL HCl 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 hydrochloride, fetal mortality was slightly but not significantly ($P > 0.05$) increased. Female rats treated with ethambutol hydrochloride displayed slight but insignificant ($P > 0.05$) decreases in fertility and litter size. In fetuses born of mice treated with high doses of ETHAMBUTOL HCl 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 hydrochloride during pregnancy. Rabbits receiving high doses of ETHAMBUTOL HCl during pregnancy gave birth to two fetuses with monophthalmia, one with a shortened right forearm accompanied by bilateral wrist-joint contracture and one with hare lip and cleft palate.

Nursing Mothers

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

Pediatric Use

ETHAMBUTOL HCl (ethambutol hydrochloride) 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 HCl in the elderly. One study of 101 patients, 65 years and older, on multiple drug antituberculosis regimens included 94 patients on ETHAMBUTOL HCl. 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 HCl 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 HCl 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 HCl.

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

Initial Snellen Reading	Reading Indicating Significant Decrease	Significant Number of Lines	Decreased Number of Points
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

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 HCl 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 HCl.

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 HCl treatment may show subjective visual symptoms before, or simultaneously with, the demonstration of decreases in visual acuity, and all patients receiving ETHAMBUTOL HCl 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 HCl (ethambutol hydrochloride) 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, leukopenia, 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 HCl therapy. Liver toxicities, including fatalities, have been reported. (See **WARNINGS**).

Since ETHAMBUTOL HCl 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 HCl should not be used alone, in initial treatment or in retreatment. ETHAMBUTOL HCl 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 HCl 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 HCl 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 HCl 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 HCl 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).

Weight-Dose Table
15 mg/kg (7 mg/lb) Schedule

Weight Range Pounds	Dose Kilograms In mg
Under 85 lbs	Under 37 Kg.....500
85 - 94.5	37-43.....600
95 - 109.5	43-50.....700
110- 124.5	50-57.....800
125- 139.5	57-64.....900
140- 154.5	64-71.....1000
155- 169.5	71-79.....1100

170 - 184.5	79-84.....1200
185- 199.5	84-90.....1300
200- 214.5	90-97.....1400
215 and Over	Over 97.....1500

25 mg/kg (11 mg/lb) Schedule

Under 85 lbs.	Under 38 kg.....900
85 - 92.5	38-42.....1000
93 - 101.5	42-45.5.....1100
102- 109.5	45.5-50.....1200
110 - 118.5	50-54.....1300
119 - 128.5	54-58.....1400
129 - 136.5	58-62.....1500
137 - 146.5	62-67.....1600
147 - 155.5	67-71.....1700
156 - 164.5	71-75.....1800
165- 173.5	75-79.....1900
174- 182.5	79-83.....2000
183- 191.5	83-87.....2100
192- 199.5	87-91.....2200
200- 209.5	91-95.....2300
210- 218.5	95-99.....2400
219 and Over	Over 99.....2500

HOW SUPPLIED

Ethambutol hydrochloride Tablets USP

100 mg - round, convex, white, film coated tablets engraved E6 on one side are supplied as follows:

NDC 85742-005-04 - Bottle of 100

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 85742-006-04 - Bottle of 100

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

To report SUSPECTED ADVERSE REACTIONS, contact Kanchan Healthcare Inc at (833) 845-2624 or kanchan_micc@mitconbiopharma.com or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

Manufactured by :
 Cadila Pharmaceuticals Limited
 1389 Trasad Road,
 Dholka, Ahmedabad,
 Gujarat, India.

Manufactured for & Distributed by:

Kanchan Healthcare Inc.
1 Gatehall Drive: Suite No. 202
Parsippany, NJ 07054 USA

Revised 08/2025

Principal Display Panel - Ethambutol 100mg

NDC 85742-005-04

Ethambutol Hydrochloride Tablets, USP

100mg (Film Coated)

AVERAGE ADULT DAILY DOSAGE:

15 mg/kg or 25 mg/kg once every 24 hours.

See enclosed circular.

100 Tablets Rx only

This package not for household dispensing.

Dispense in tight containers as defined in the USP.

**KANCHAN
HEALTHCARE INC**

<p>NDC 85742-005-04 Ethambutol Hydrochloride Tablets, USP 100 mg (Film Coated) AVERAGE ADULT DAILY DOSAGE: 15 mg/kg or 25 mg/kg once every 24 hours. See enclosed circular.</p> <hr/> <p>100 Tablets Rx only This package not for household dispensing. Dispense in tight containers as defined in the USP.</p> <p> KANCHAN HEALTHCARE INC</p>	<p>Store at controlled room temperature 20°-25°C (68°-77°F)</p> <p>Manufactured by: Cadila Pharmaceuticals Limited 1389 Trasad Road, Dholka, Ahmedabad, Gujarat, India.</p> <p>Manufactured for & Distributed by: Kanchan Healthcare Inc 1 Gatehall Drive; Suite No. 202 Parsippany, NJ 07054 USA</p>	<p>Revised 2025-AUG Mfg. Lic. No. : G/25/1500</p>  <p>3 85742100504 0</p> <p>JET5543</p>	<p><i>Unvarnished Area 36 x 40 mm Space For 2D Barcode online printing Sample 2D Barcode as shown</i></p>
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Principal Display Panel - Ethambutol 400mg

NDC 85742-006-04

Ethambutol Hydrochloride Tablets, USP

400mg (Film Coated)

AVERAGE ADULT DAILY DOSAGE:

15 mg/kg or 25 mg/kg once every 24 hours.

See enclosed circular.

100 Tablets Rx only

This package not for household dispensing.
Dispense in tight containers as defined in the USP.

**KANCHAN
HEALTHCARE INC**

NDC 85742-006-04	Store at controlled room temperature 20°-25°C (68°-77°F)		<p style="color: #dc3545; text-align: center; font-weight: bold;">Unvarnished Area 38 x 44 mm Space For 2D Barcode online printing Sample 2D Barcode as shown</p>
Ethambutol Hydrochloride Tablets, USP	Manufactured by: Cadila Pharmaceuticals Limited 1389 Trasad Road, Dholka, Ahmedabad, Gujarat, India.		
400 mg (Film Coated)	Manufactured for & Distributed by: Kanchan Healthcare Inc 1 Gatehall Drive; Suite No. 202 Parsippany, NJ 07054 USA	Revised 2025-AUG Mfg. Lic. No. : G/25/1500	
AVERAGE ADULT DAILY DOSAGE: 15 mg/kg or 25 mg/kg once every 24 hours. See enclosed circular.	100 Tablets Rx only This package not for household dispensing. Dispense in tight containers as defined in the USP.		JET6544
			

ETHAMBUTOL HYDROCHLORIDE

ethambutol hydrochloride tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:85742-006
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ETHAMBUTOL HYDROCHLORIDE (UNII: QE4VW5FO07) (ETHAMBUTOL - UNII:8G167061QZ)	ETHAMBUTOL HYDROCHLORIDE	400 mg

Inactive Ingredients

Ingredient Name	Strength
GELATIN (UNII: 2G86QN327L)	
HYDROXYPROPYL CELLULOSE (UNII: RFW2ET671P)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
SODIUM LAURYL SULFATE (UNII: 368GB5141J)	
SORBITOL (UNII: 506T60A25R)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
SUCROSE (UNII: C151H8M554)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

Product Characteristics

Color	white (white)	Score	2 pieces
Shape	ROUND (round, convex)	Size	13mm
Flavor		Imprint Code	E;7
Contains			

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:85742-006-04	100 in 1 BOTTLE; Type 0: Not a Combination Product	08/26/2025	

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA016320	12/15/2006	

ETHAMBUTOL HYDROCHLORIDE

ethambutol hydrochloride tablet, film coated

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:85742-005
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	Basis of Strength	Strength
ETHAMBUTOL HYDROCHLORIDE (UNII: QE4VW5FO07) (ETHAMBUTOL - UNII:8G167061QZ)	ETHAMBUTOL HYDROCHLORIDE	100 mg

Inactive Ingredients	
Ingredient Name	Strength
GELATIN (UNII: 2G86QN327L)	
HYDROXYPROPYL CELLULOSE (UNII: RFW2ET671P)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
SODIUM LAURYL SULFATE (UNII: 368GB5141J)	
SORBITOL (UNII: 506T60A25R)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
SUCROSE (UNII: C151H8M554)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

Product Characteristics			
Color	white (white)	Score	no score

Shape	ROUND (round, convex)	Size	8mm
Flavor		Imprint Code	E6
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:85742-005-04	100 in 1 BOTTLE; Type 0: Not a Combination Product	08/26/2025	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA authorized generic	NDA016320	12/15/2006	

Labeler - Kanchan Healthcare Inc (119315087)

Registrant - Kanchan Healthcare Inc. (119315087)

Establishment

Name	Address	ID/FEI	Business Operations
Cadila Pharmaceuticals Limited		918451696	manufacture(85742-006, 85742-005)

Revised: 11/2025

Kanchan Healthcare Inc