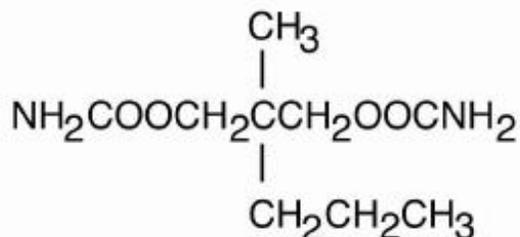


**MEPROBAMATE- meprobamate tablet**  
**Dr.Reddy's Laboratories Limited**

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**Meprobamate Tablets**

**DESCRIPTION**

Meprobamate is a white powder with a characteristic odor and a bitter taste. It is slightly soluble in water, freely soluble in acetone and alcohol, and sparingly soluble in ether. The structural formula of meprobamate is:



$\text{C}_9\text{H}_{18}\text{N}_2\text{O}_4$  M.W.218.25

Meprobamate Tablets USP 200 mg and 400 mg for oral administration contain the following inactive ingredients: microcrystalline cellulose, sodium starch glycolate, pre-gelatinized starch, colloidal silicon dioxide, stearic acid and magnesium stearate.

**CLINICAL PHARMACOLOGY**

Meprobamate is a carbamate derivative which has been shown in animal studies to have effects at multiple sites in the central nervous system including the thalamus and limbic system.

**INDICATIONS AND USAGE**

Meprobamate tablets are indicated for the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Anxiety or tension associated with the stress of everyday life usually do not require treatment with an anxiolytic.

The effectiveness of meprobamate tablets in long-term use, that is, more than 4 months, has not been assessed by systematic clinical studies. The physician should periodically reassess the usefulness of the drug for the individual patient.

**CONTRAINDICATIONS**

Acute intermittent porphyria as well as allergic or idiosyncratic reactions to meprobamate or related compounds such as carisoprodol, mebutamate, tybamate, or carbromal.

**WARNINGS**

**Drug Dependence**

Physical dependence, psychological dependence, and abuse have occurred. When chronic intoxication from prolonged use occurs, it usually involves ingestion of greater than recommended doses and is manifested by ataxia, slurred speech, and vertigo. Therefore, careful supervision of dose and amounts

prescribed is advised, as well as avoidance of prolonged administration, especially for alcoholics and other patients with a known propensity for taking excessive quantities of drugs.

Sudden withdrawal of the drug after prolonged and excessive use may precipitate recurrence of pre-existing symptoms such as anxiety, anorexia, insomnia, or withdrawal reactions such as vomiting, ataxia, tremors, muscle twitching, confusional states, hallucinosis, and rarely, convulsive seizures. Such seizures are more likely to occur in persons with central nervous system damage or pre-existent or latent convulsive disorders. Onset of withdrawal symptoms occurs usually within 12 to 48 hours after discontinuation of meprobamate; symptoms usually cease within the next 12 to 48 hours.

When excessive dosage has continued for weeks or months, dosage should be reduced gradually over a period of one or two weeks rather than abruptly stopped. Alternatively, a long-acting barbiturate may be substituted, then gradually withdrawn.

### **Potentially Hazardous Tasks**

Patients should be warned that meprobamate may impair the mental and/or physical abilities required for performance of potentially hazardous tasks such as driving or operating machinery.

### **Additive Effects**

Since the effects of meprobamate and alcohol or meprobamate and other CNS depressants or psychotropic drugs may be additive, appropriate caution should be exercised with patients who take more than one of these agents simultaneously.

### **Usage in Pregnancy and Lactation**

**An increased risk of congenital malformations associated with the use of minor tranquilizers (meprobamate, chlordiazepoxide and diazepam) during the first trimester of pregnancy has been suggested in several studies. Because use of these drugs is rarely a matter of urgency, their use during this period should almost always be avoided. The possibility that a woman of childbearing potential may be pregnant at the time of institution of therapy should be considered. Patients should be advised that if they become pregnant during therapy or intend to become pregnant they should communicate with their physician about the desirability of discontinuing the drug.**

**Meprobamate passes the placental barrier. It is present both in umbilical cord blood at or near maternal plasma levels and in breast milk of lactating mothers at concentrations two to four times that of maternal plasma. When use of meprobamate is contemplated in breastfeeding patients, the drug's higher concentration in breast milk as compared to maternal plasma should be considered.**

### **Usage in Children**

Meprobamate tablets should not be administered to children under age six, since there is a lack of documented evidence for safety and effectiveness in this age group.

## **PRECAUTIONS**

The lowest effective dose should be administered, particularly to elderly and/or debilitated patients, in order to preclude oversedation.

The possibility of suicide attempts should be considered and the least amount of drug feasible should be dispensed at any time.

Meprobamate is metabolized in the liver and excreted by the kidney; to avoid its excess accumulation, caution should be exercised in administration to patients with compromised liver or kidney function.

Meprobamate occasionally may precipitate seizures in epileptic patients.

## **Geriatric Use**

Clinical studies of meprobamate tablets did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. 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.

## **ADVERSE REACTIONS**

### **Central Nervous System**

Drowsiness, ataxia, dizziness, slurred speech, headache, vertigo, weakness, paresthesias, impairment of visual accommodation, euphoria, overstimulation, paradoxical excitement, fast EEG activity.

### **Gastrointestinal**

Nausea, vomiting, diarrhea.

### **Cardiovascular**

Palpitation, tachycardia, various forms of arrhythmia, transient ECG changes, syncope; also hypotensive crisis (including one fatal case).

### **Allergic or Idiosyncratic**

Allergic or idiosyncratic reactions are usually seen within the period of the first to fourth dose in patients having had no previous contact with the drug. Milder reactions are characterized by an itchy, urticarial, or erythematous maculopapular rash which may be generalized or confined to the groin. Other reactions have included leukopenia, acute nonthrombocytopenic purpura, petechiae, ecchymoses, eosinophilia, peripheral edema, adenopathy, fever, fixed drug eruption with cross reaction to carisoprodol, and cross sensitivity between meprobamate/mebutamate and meprobamate/carbromal.

More severe hypersensitivity reactions, rarely reported, include hyperpyrexia, chills, angioneurotic edema, bronchospasm, oliguria and anuria. Also, anaphylaxis, erythema multiforme, exfoliative dermatitis, stomatitis, proctitis, Stevens-Johnson syndrome and bullous dermatitis, including one fatal case of the latter following administration of meprobamate in combination with prednisolone.

In case of allergic or idiosyncratic reactions to meprobamate, discontinue the drug and initiate appropriate symptomatic therapy, which may include epinephrine, antihistamines, and in severe cases, corticosteroids. In evaluating possible allergic reactions, also consider allergy to excipients.

### **Hematologic**

(See also **Allergic or Idiosyncratic**). Agranulocytosis and aplastic anemia have been reported. These cases rarely were fatal. Rare cases of thrombocytopenic purpura have been reported.

### **Other**

Exacerbation of porphyric symptoms.

## **OVERDOSAGE**

Suicidal attempts with meprobamate have resulted in drowsiness, lethargy, stupor, ataxia, coma, shock, vasomotor, and respiratory collapse. Some suicidal attempts have been fatal.

The following data on meprobamate tablets have been reported in the literature and from other sources.

These data are not expected to correlate with each case (considering factors such as individual susceptibility and length of time from ingestion to treatment), but represent the usual ranges reported.

### **Acute simple overdose**

(meprobamate alone): Death has been reported with ingestion of as little as 12 g meprobamate and survival with as much as 40 g.

### **Blood levels**

0.5-2 mg% represents the usual blood level range of meprobamate after therapeutic doses. The level may occasionally be as high as 3mg%.

3-10 mg% usually corresponds to findings of mild to moderate symptoms of overdosage, such as stupor or light coma.

10-20 mg% usually corresponds to deeper coma, requiring more intensive treatment. Some fatalities occur.

At levels greater than 20 mg%, more fatalities than survivals can be expected.

### **Acute combined overdose**

(meprobamate with alcohol or other CNS depressants or psychotropic drugs): Since effects can be additive, a history of ingestion of a low dose of meprobamate plus any of these compounds (or of a relative low blood or tissue level) cannot be used as a prognostic indicator.

In cases where excessive doses have been taken, sleep ensues rapidly and blood pressure, pulse, and respiratory rates are reduced to basal levels. Any drug remaining in the stomach should be removed and symptomatic therapy given. Should respiration or blood pressure become compromised, respiratory assistance, central nervous system stimulants, and pressor agents should be administered cautiously as indicated. Meprobamate is metabolized in the liver and excreted by the kidney. Diuresis, osmotic (mannitol) diuresis, peritoneal dialysis, and hemodialysis have been used successfully. Careful monitoring of urinary output is necessary and caution should be taken to avoid overhydration. Relapse and death, after initial recovery, have been attributed to incomplete gastric emptying and delayed absorption. Meprobamate can be measured in biological fluids by two methods: colorimetric (Hoffman, A.J. and Ludwig, B.J.: J Amer Pharm Assn 48:740, 1959) and gas chromatographic (Douglas, J.F. et al: Anal Chern 39: 956, 1967).

## **DOSAGE AND ADMINISTRATION**

Meprobamate Tablets USP: The usual adult daily dosage is 1200 mg to 1600 mg, in three or four divided doses; a daily dosage above 2400 mg is not recommended. The usual daily dosage for children ages six to twelve years is 200 mg to 600 mg, in two or three divided doses.

Not recommended for children under age 6 (see Usage in Children).

## **HOW SUPPLIED**

Meprobamate Tablets USP 200 mg are white, round, biconvex tablets debossed with I and 7 on one side and bisect on the other.

Supplied in bottles of 100 and 1000.

Bottles of 100: NDC 55111-640-01

Bottles of 1000: NDC 55111-640-10

Meprobamate Tablets USP 400 mg are white, round, biconvex tablets debossed with I and 4 on one side and bisect on the other.

Supplied in bottles of 100 and 500.

Bottles of 100: NDC 55111-641-01

Bottles of 500: NDC 55111-641-05

Dispense in well-closed container with child-resistant closure.

Store at 20°-25°C (68°-77°F) [see USP Controlled Room Temperature].

Manufactured by:

**InvaGen Pharmaceuticals, Inc**

Hauppauge, NY 11788

Manufactured for:

**Dr. Reddy's Laboratories Inc.,**

Bridgewater, NJ 08807 USA

Rev: 05/09

## 200 mg - CONTAINER LABELS

100's count

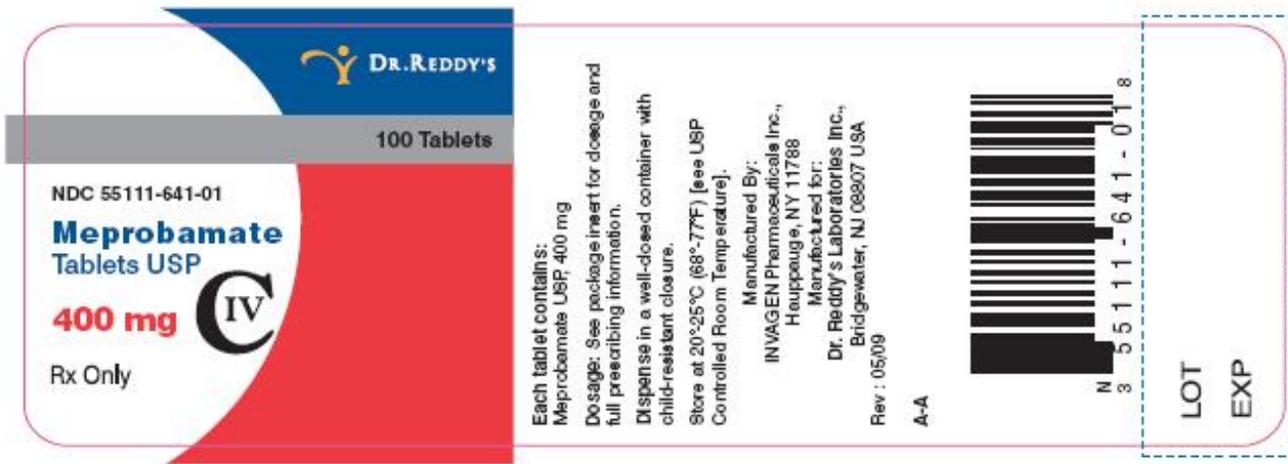


1000's count



## 400 mg - CONTAINER LABELS

100's count



500's count



## MEPROBAMATE

meprobamate tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:55111-640(NDC:67787-261)
<b>Route of Administration</b>	ORAL	<b>DEA Schedule</b>	CIV

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Meprobamate (UNII: 9I7LNY769Q) (meprobamate - UNII:9I7LNY769Q)	Meprobamate	200 mg

### Inactive Ingredients

Ingredient Name	Strength
cellulose, microcrystalline (UNII: OP1R32D61U)	
starch, corn (UNII: O8232NY3SJ)	

colloidal silicon dioxide (UNII: ETJ7Z6XBU4)	
stearic acid (UNII: 4ELV7Z65AP)	
magnesium stearate (UNII: 70097M6B0)	
sodium starch glycolate type A potato (UNII: 5856J3G2A2)	

### Product Characteristics

Color	WHITE	Score	2 pieces
Shape	ROUND	Size	9mm
Flavor		Imprint Code	I;7
Contains			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:55111-640-01	100 in 1 BOTTLE		
2	NDC:55111-640-10	1000 in 1 BOTTLE		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA040797	01/03/2008	

## MEPROBAMATE

meprobamate tablet

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:55111-641(NDC:67787-262)
Route of Administration	ORAL	DEA Schedule	CIV

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Meprobamate (UNII: 9I7LNY769Q) (meprobamate - UNII:9I7LNY769Q)	Meprobamate	400 mg

### Inactive Ingredients

Ingredient Name	Strength
cellulose, microcrystalline (UNII: OP1R32D61U)	
starch, corn (UNII: O8232NY3SJ)	
colloidal silicon dioxide (UNII: ETJ7Z6XBU4)	
stearic acid (UNII: 4ELV7Z65AP)	
magnesium stearate (UNII: 70097M6B0)	

## Product Characteristics

<b>Color</b>	WHITE	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	11mm
<b>Flavor</b>		<b>Imprint Code</b>	I;4
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:55111-641-01	100 in 1 BOTTLE		
2	NDC:55111-641-05	500 in 1 BOTTLE		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA040797	01/03/2008	

**Labeler** - Dr.Reddy's Laboratories Limited (862179079)

## Establishment

Name	Address	ID/FEI	Business Operations
InvaGen Pharmaceuticals, Inc.		165104469	analysis, manufacture

Revised: 9/2009

Dr.Reddy's Laboratories Limited