

METHOCARBAMOL - methocarbamol tablet
H.J. Harkins Company, Inc.

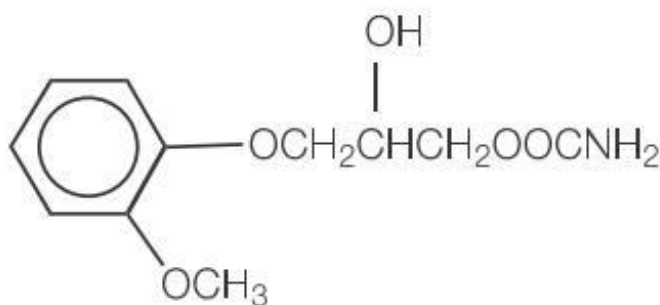
Methocarbamol Tablets USP
Revised: September 2008
Rx only
173752

Rx only

DESCRIPTION

Methocarbamol, a carbamate derivative of guaifenesin, is a central nervous system (CNS) depressant with sedative and musculoskeletal relaxant properties.

The chemical name of methocarbamol is a 3-(2 methoxyphenoxy)-1,2-propanediol 1-carbamate. The structural formula is shown below:



Structural formula of Methocarbamol

$C_{11}H_{15}NO_5$ M.W. 241.24

Methocarbamol is a white powder, sparingly soluble in water and chloroform, soluble in alcohol (only with heating) and propylene glycol, and insoluble in benzene and *n*-hexane.

Methocarbamol Tablets USP 500 mg and 750 mg, contain the following inactive ingredients: colloidal silicon dioxide, magnesium stearate, pregelatinized starch, sodium starch glycolate and stearic acid.

Clinical Pharmacology

The mechanism of action of methocarbamol in humans has not been established, but may be due to general central nervous system (CNS) depression. It has no direct action on the contractile mechanism of striated muscle, the motor end plate or the nerve fiber.

Pharmacokinetics

In healthy volunteers, the plasma clearance of methocarbamol ranges between 0.20 and 0.80 L/h/kg, the mean plasma elimination half-life ranges between 1 and 2 hours, and the plasma protein binding ranges between 46% and 50%.

Methocarbamol is metabolized via dealkylation and hydroxylation. Conjugation of methocarbamol also is likely. Essentially all methocarbamol metabolites are eliminated in the urine. Small amounts of unchanged methocarbamol also are excreted in the urine.

Special populations

Elderly

The mean (\pm SD) elimination half-life of methocarbamol in elderly healthy volunteers (mean (\pm SD) age, 69 (\pm 4) years) was slightly prolonged compared to a younger (mean (\pm SD) age, 53.3 (\pm 8.8) years), healthy population (1.5 (\pm 0.4) hours versus 1.1 (\pm 0.27) hours, respectively). The fraction of bound methocarbamol was slightly decreased in the elderly versus younger volunteers (41 to 43% versus 46 to 50%, respectively).

Renally impaired

The clearance of methocarbamol in 8 renally-impaired patients on maintenance hemodialysis was reduced about 40% compared to 17 normal subjects, although the mean (\pm SD) elimination half-life in these two groups was similar: 1.2 (\pm 0.6) versus 1.1 (\pm 0.3) hours, respectively.

Hepatically impaired

In 8 patients with cirrhosis secondary to alcohol abuse, the mean total clearance of methocarbamol was reduced approximately 70% compared to that obtained in 8 age- and weight-matched normal subjects. The mean (\pm SD) elimination half-life in the cirrhotic patients and the normal subjects was 3.38 (\pm 1.62) hours and 1.11 (\pm 0.27) hours, respectively. The percent of methocarbamol bound to plasma proteins was decreased to approximately 40 to 45% compared to 46 to 50% in the normal subjects.

INDICATIONS AND USAGE

Methocarbamol tablets are indicated as an adjunct to rest, physical therapy, and other measures for the relief of discomfort associated with acute, painful musculoskeletal conditions. The mode of action of methocarbamol has not been clearly identified, but may be related to its sedative properties. Methocarbamol does not directly relax tense skeletal muscles in man.

CONTRAINDICATIONS

Methocarbamol tablets are contraindicated in patients hypersensitive to methocarbamol or to any of the tablet components.

WARNINGS

Since methocarbamol may possess a general CNS depressant effect, patients receiving methocarbamol should be cautioned about combined effects with alcohol and other CNS depressants.

Safe use of methocarbamol has not been established with regard to possible adverse effects upon fetal development. There have been reports of fetal and congenital abnormalities following in utero exposure to methocarbamol. Therefore, methocarbamol should not be used in women who are or may become pregnant and particularly during early pregnancy unless in the judgment of the physician the potential benefits outweigh the possible hazards (see **PRECAUTIONS, Pregnancy**).

Use In Activities Requiring Mental Alertness

Methocarbamol may impair mental and/or physical abilities required for performance of hazardous tasks, such as operating machinery or driving a motor vehicle. Patients should be cautioned about operating machinery, including automobiles, until they are reasonably certain that methocarbamol therapy does not adversely affect their ability to engage in such activities.

PRECAUTIONS

Information for Patients

Patients should be cautioned that methocarbamol may cause drowsiness or dizziness, which may impair their ability to operate motor vehicles or machinery.

Because methocarbamol may possess a general CNS-depressant effect, patients should be cautioned about combined effects with alcohol and other CNS depressants.

Drug Interactions

See **WARNINGS** and **PRECAUTIONS** for interaction with CNS drugs and alcohol.

Methocarbamol may inhibit the effect of pyridostigmine bromide. Therefore, methocarbamol should be used with caution in patients with myasthenia gravis receiving anticholinesterase agents.

Drug/Laboratory Test Interactions

Methocarbamol may cause a color interference in certain screening tests for 5-hydroxyindoleacetic acid (5-HIAA) using nitrosonaphthol reagent and in screening tests for urinary vanillylmandelic acid (VMA) using the Gitlow method.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term studies to evaluate the carcinogenic potential of methocarbamol have not been performed. No studies have been conducted to assess the effect of methocarbamol on mutagenesis or its potential to impair fertility.

Pregnancy

Teratogenic Effects — Pregnancy Category C

Animal reproduction studies have not been conducted with methocarbamol. It is also not known whether methocarbamol can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Methocarbamol should be given to a pregnant woman only if clearly needed.

Safe use of methocarbamol has not been established with regard to possible adverse effects upon fetal development. There have been reports of fetal and congenital abnormalities following in utero exposure to methocarbamol. Therefore, methocarbamol should not be used in women who are or may become pregnant and particularly during early pregnancy unless in the judgment of the physician the potential benefits outweigh the possible hazards (see **WARNINGS**).

Nursing Mothers

Methocarbamol and/or its metabolites are excreted in the milk of dogs; however, it is not known whether methocarbamol or its metabolites are excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when methocarbamol is administered to a nursing woman.

Pediatric Use

Safety and effectiveness of methocarbamol in pediatric patients below the age of 16 have not been established.

ADVERSE REACTIONS

Adverse reactions reported coincident with the administration of methocarbamol include:

Body as a whole: Anaphylactic reaction, angioneurotic edema, fever, headache

Cardiovascular system: Bradycardia, flushing, hypotension, syncope, thrombophlebitis

Digestive system: Dyspepsia, jaundice (including cholestatic jaundice), nausea and vomiting

Hemic and lymphatic system: Leukopenia

Immune system: Hypersensitivity reactions

Nervous system: Amnesia, confusion, diplopia, dizziness or lightheadedness, drowsiness, insomnia, mild muscular incoordination, nystagmus, sedation, seizures (including grand mal), vertigo

Skin and special senses: Blurred vision, conjunctivitis, nasal congestion, metallic taste, pruritus, rash, urticaria

OVERDOSAGE

Limited information is available on the acute toxicity of methocarbamol. Overdose of methocarbamol is frequently in conjunction with alcohol or other CNS depressants and includes the following symptoms: nausea, drowsiness, blurred vision, hypotension, seizures, and coma.

In post-marketing experience, deaths have been reported with an overdose of methocarbamol alone or in the presence of other CNS depressants, alcohol or psychotropic drugs.

Treatment

Management of overdose includes symptomatic and supportive treatment. Supportive measures include maintenance of an adequate airway, monitoring urinary output and vital signs, and administration of intravenous fluids if necessary. The usefulness of hemodialysis in managing overdose is unknown.

DOSAGE AND ADMINISTRATION

500 mg - Adults:

initial dosage, 3 tablets q.i.d.; maintenance dosage, 2 tablets q.i.d.

750 mg - Adults:

initial dosage, 2 tablets q.i.d.; maintenance dosage 1 tablet q.4h or 2 tablets t.i.d.

Six grams a day are recommended for the first 48 to 72 hours of treatment. (For severe conditions 8 grams a day may be administered). Thereafter, the dosage can usually be reduced to approximately 4 grams a day.

HOW SUPPLIED

Methocarbamol Tablets USP 500 mg are scored, round, white tablets imprinted **DAN DAN** and **5381** supplied in bottles of 100 and 500.

Methocarbamol Tablets USP 750 mg are scored, capsule shaped, white tablets imprinted **DAN DAN** and **5382** supplied in bottles of 100 and 500.

Dispense in a tight container with a child-resistant closure.

Store at 20°-25°C (68°-77°F). [See USP controlled room temperature.]

Manufactured by:

Watson Pharma Private Ltd.

Verna, Salcette Goa 403 722 INDIA

Distributed By:

Watson Pharma Inc.

Corona, CA 92880 USA

Revised : September 2008

0908B 173752

Principal Display Panel

NDC 0591-5381-01

Methocarbamol

Tablets USP

500 mg

100 Tablets Rx only

Each tablet contains:

Methocarbamol USP, 500 mg

Dosage : See package insert for dosage and full prescribing information.

Dispense in a tight container with a child-resistant closure.

Store at 20°C-25°C (68°-77°F).[See USP controlled room temperature.]

Manufactured By:

Watson Pharma Private Limited

Verna, Salcette Goa 403 722 INDIA

Code No. GO/DRUGS/741 173650

Distributed by : **Watson Pharma, Inc.**

52959-167-60	RX Only: #XXXXXXXX	#XXX	CAUTION: Federal law PROHIBITS the transfer of this drug to anyone other than the person to whom prescribed and prohibits dispensing without a prescription unless OTC. See insert for add'l RX info KEEP OUT OF REACH OF CHILDREN. Store in a cool dry place 68 to 77 degrees F.
METHOCARBAMOL 500mg TAB.			
Lot #: MET508WL			
Mfg: WATSON PHA			
Exp: 12/10		Compare to: Robaxin	
Mfg India		Mfg. NDC: 0591-5381-05	
Loc.:		Pill ID: White round tablet	
Take as directed by your Doctor or See insert for usual dosage information			
METHOCARBAMOL 500mg TAB. 52959-167-60 Qty #60 12/10 Lot MET508WL Robaxin 0591-5381-05			
METHOCARBAMOL 500mg TAB. 52959-167-60 Qty #60 12/10 Lot MET508WL Robaxin 0591-5381-05			
METHOCARBAMOL 500mg TAB. 52959-167-60 Qty #60 12/10 Lot MET508WL Robaxin 0591-5381-05			
METHOCARBAMOL 500mg TAB. 52959-167-60 Qty #60 12/10 Lot MET508WL Robaxin 0591-5381-05			
Repack: HJ Harkins Co., Inc. Nipomo, CA 93444 Dispense in tight, child & light-resistant container per USP			

Principal Display Panel

52959-099-45

RX Only: #XXXXXXXX

#XXX

CAUTION: Federal law PROHIBITS the transfer of this drug to anyone other than the person to whom prescribed and prohibits dispensing without a prescription unless OTC. See outsert for add'l RX info KEEP OUT OF REACH OF CHILDREN. Store in a cool dry place 68 to 77 degrees F.

METHOCARBAMOL 750mg TAB.

Lot #: ME704WL

Mfg: WATSON LAB

Exp: 04/12

Compare to: Robaxin

Mfg India

Mfg. NDC: 0591-5382-05

Loc.:

Pill ID: White capsule-shaped tablet

METHOCARBAMOL 750mg TAB.		
52959-099-45	Qty	#45
04/12	Lot	ME704WL
Robaxin		0591-5382-05

METHOCARBAMOL 750mg TAB.		
52959-099-45	Qty	#45
04/12	Lot	ME704WL
Robaxin		0591-5382-05

METHOCARBAMOL 750mg TAB.		
52959-099-45	Qty	#45
04/12	Lot	ME704WL
Robaxin		0591-5382-05

METHOCARBAMOL 750mg TAB.		
52959-099-45	Qty	#45
04/12	Lot	ME704WL
Robaxin		0591-5382-05

Repack: HJ Harkins Co., Inc. Nipomo, CA 93444
Dispense in tight, child & light-resistant container per USP

Take as directed by your Doctor or
See outsert for usual dosage information

NDC 0591-5382-01
Methocarbamol
Tablets USP
750 mg
100 Tablets Rx only

Each tablet contains:
Methocarbamol USP, 750 mg

Dosage : See package insert for dosage
and full prescribing information.

Dispense in a tight container with a
child-resistant closure.

Store at 20°C-25°C (68°-77°F).[See
USP controlled room temperature.]

Manufactured By:
Watson Pharma Private Limited
Verna, Salcette Goa 403 722 INDIA
Code No. GO/DRUGS/741 173652

Repacked By:
H.J. Harkins Company, Inc.
Nipomo, CA 93444

Distributed by : **Watson Pharma, Inc.**

METHOCARBAMOL

methocarbamol tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:52959-167(NDC:0591-5381)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
METHOCARBAMOL (UNII: 125OD7737X) (METHOCARBAMOL - UNII:125OD7737X)	METHOCARBAMOL	500 mg

Inactive Ingredients

Ingredient Name	Strength
COLLOIDAL SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
STARCH, CORN (UNII: O8232NY3SJ)	

Product Characteristics

Color	WHITE	Score	2 pieces
Shape	ROUND	Size	13mm
Flavor		Imprint Code	DAN;DAN;5381
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:52959-167-00	100 in 1 BOTTLE		
2	NDC:52959-167-03	120 in 1 BOTTLE		
3	NDC:52959-167-10	10 in 1 BOTTLE		
4	NDC:52959-167-12	12 in 1 BOTTLE		
5	NDC:52959-167-15	15 in 1 BOTTLE		
6	NDC:52959-167-20	20 in 1 BOTTLE		
7	NDC:52959-167-21	21 in 1 BOTTLE		
8	NDC:52959-167-24	24 in 1 BOTTLE		
9	NDC:52959-167-30	30 in 1 BOTTLE		
10	NDC:52959-167-40	40 in 1 BOTTLE		
11	NDC:52959-167-60	60 in 1 BOTTLE		
12	NDC:52959-167-90	90 in 1 BOTTLE		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA084277	11/01/1987	

METHOCARBAMOL

methocarbamol tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:52959-099(NDC:0591-5382)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
METHOCARBAMOL (UNII: 125OD7737X) (METHOCARBAMOL - UNII:125OD7737X)	METHOCARBAMOL	750 mg

Inactive Ingredients

Ingredient Name	Strength
COLLOIDAL SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
STARCH, CORN (UNII: O8232NY3SJ)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
STEARIC ACID (UNII: 4ELV7Z65AP)	

Product Characteristics

Color	WHITE	Score	2 pieces
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	DAN;DAN;5382
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:52959-099-00	100 in 1 BOTTLE		
2	NDC:52959-099-03	120 in 1 BOTTLE		
3	NDC:52959-099-10	10 in 1 BOTTLE		
4	NDC:52959-099-15	15 in 1 BOTTLE		
5	NDC:52959-099-20	20 in 1 BOTTLE		
6	NDC:52959-099-21	21 in 1 BOTTLE		
7	NDC:52959-099-28	28 in 1 BOTTLE		
8	NDC:52959-099-30	30 in 1 BOTTLE		
9	NDC:52959-099-40	40 in 1 BOTTLE		
10	NDC:52959-099-45	45 in 1 BOTTLE		
11	NDC:52959-099-50	50 in 1 BOTTLE		
12	NDC:52959-099-60	60 in 1 BOTTLE		
13	NDC:52959-099-90	90 in 1 BOTTLE		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA084276	11/01/1987	

Labeler - H.J. Harkins Company, Inc. (147681894)

Establishment

Name	Address	ID/FEI	Business Operations
Watson Laboratories, Inc.		840054118	manufacture

Revised: 12/2011

H.J. Harkins Company, Inc.