HYDROCODONE BITARTRATE AND ACETAMINOPHEN - hydrocodone bitartrate and acetaminophen tablet STAT RX USA LLC

HYDROCODONE BITARTRATE AND ACETAMINOPHEN TABLETS USP

CIII

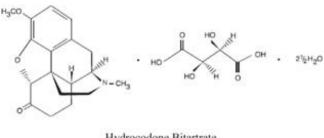
5 mg/325 mg	5 mg/500 mg			
7.5 mg/325 mg	7.5 mg/500 mg	7.5 mg/650 mg	7.5 mg/750 mg	
10 mg/325 mg	10 mg/500 mg	10 mg/650 mg	10 mg/660 mg	10 mg/750 mg

Rx only

DESCRIPTION

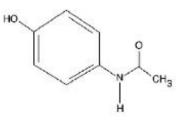
Hydrocodone Bitartrate and Acetaminophen Tablets are supplied in tablet form for oral administration.

Hydrocodone bitartrate is an opioid analgesic and antitussive and occurs as fine, white crystals or as a crystalline powder. It is affected by light. The chemical name is: $4,5\alpha$ -epoxy-3-methoxy-17-methylmorphinan-6-one tartrate (1:1) hydrate (2:5). It has the following structural formula:



Hydrocodone Bitartrate $C_{18}H_{21}NO_3 \cdot C_4H_6O_6 \cdot 2_{\gamma_1}H_2O$ MW = 494,490

Acetaminophen, 4'-hydroxyacetanilide, a slightly bitter, white, odorless, crystalline powder, is a non-opiate, non-salicylate analgesic and antipyretic. It has the following structural formula:



Acetaminophen $C_8H_9NO_2$ MW = 151.16

Each Hydrocodone Bitartrate and Acetaminophen Tablet USP contains:

<u>Tablet</u>	<u>Hydrocodone Bitartrate USP</u>	<u>Acetaminophen USP</u>
5 mg/325 mg	5 mg	325 mg

5 mg/500 mg	5 mg	500 mg
7.5 mg/325 mg	7.5 mg	325 mg
7.5 mg/500 mg	7.5 mg	500 mg
7.5 mg/650 mg	7.5 mg	650 mg
7.5 mg/750 mg	7.5 mg	750 mg
10 mg/325 mg	10 mg	325 mg
10 mg/500 mg	10 mg	500 mg
10 mg/650 mg	10 mg	650 mg
10 mg/660 mg	10 mg	660 mg
10 mg/750 mg	10 mg	750 mg

In addition, each tablet contains the following inactive ingredients: crospovidone, magnesium stearate, microcrystalline cellulose, povidone, pregelatinized starch, silicon dioxide, and stearic acid.

The 10 mg/650 mg tablet also contains FD & C Blue No. 1 Aluminum Lake 12%.

Meets USP Dissolution Test 1.

CLINICAL PHARMACOLOGY

Hydrocodone is a semisynthetic narcotic analgesic and antitussive with multiple actions qualitatively similar to those of codeine. Most of these involve the central nervous system and smooth muscle. The precise mechanism of action of hydrocodone and other opiates is not known, although it is believed to relate to the existence of opiate receptors in the central nervous system. In addition to analgesia, narcotics may produce drowsiness, changes in mood and mental clouding.

The analgesic action of acetaminophen involves peripheral influences, but the specific mechanism is as yet undetermined. Antipyretic activity is mediated through hypothalamic heat regulating centers. Acetaminophen inhibits prostaglandin synthetase. Therapeutic doses of acetaminophen have negligible effects on the cardiovascular or respiratory systems; however, toxic doses may cause circulatory failure and rapid, shallow breathing.

Pharmacokinetics – The behavior of the individual components is described below.

<u>Hydrocodone</u> – Following a 10 mg oral dose of hydrocodone administered to five adult male subjects, the mean peak concentration was 23.6 ± 5.2 ng/mL. Maximum serum levels were achieved at 1.3 ± 0.3 hours and the half-life was determined to be 3.8 ± 0.3 hours. Hydrocodone exhibits a complex pattern of metabolism including O-demethylation, N-demethylation and 6-keto reduction to the corresponding 6- α - and 6- β -hydroxymetabolites (*see* **OVERDOSAGE** for toxicity information).

<u>Acetaminophen</u> – Acetaminophen is rapidly absorbed from the gastrointestinal tract and is distributed throughout most body tissues. The plasma half-life is 1.25 to 3 hours, but may be increased by liver damage and following overdosage. Elimination of acetaminophen is principally by liver metabolism (conjugation) and subsequent renal excretion of metabolites. Approximately 85% of an oral dose appears in the urine within 24 hours of administration, most as the glucuronide conjugate, with small amounts of other conjugates and unchanged drug (*see* **OVERDOSAGE** for toxicity information).

INDICATIONS AND USAGE

Hydrocodone bitartrate and acetaminophen tablets are indicated for the relief of moderate to moderately severe pain.

CONTRAINDICATIONS

This product should not be administered to patients who have previously exhibited hypersensitivity to

hydrocodone or acetaminophen.

Patients known to be hypersensitive to other opioids may exhibit cross-sensitivity to hydrocodone.

WARNINGS

Respiratory Depression – At high doses or in sensitive patients, hydrocodone may produce doserelated respiratory depression by acting directly on the brain stem respiratory center. Hydrocodone also affects the center that controls respiratory rhythm, and may produce irregular and periodic breathing.

Head Injury and Increased Intracranial Pressure – The respiratory depressant effects of narcotics and their capacity to elevate cerebrospinal fluid pressure may be markedly exaggerated in the presence of head injury, other intracranial lesions or a pre-existing increase in intracranial pressure. Furthermore, narcotics produce adverse reactions which may obscure the clinical course of patients with head injuries.

Acute Abdominal Conditions – The administration of narcotics may obscure the diagnosis or clinical course of patients with acute abdominal conditions.

PRECAUTIONS

General

<u>Special Risk Patients</u> – As with any narcotic analgesic agent, hydrocodone bitartrate and acetaminophen tablets should be used with caution in elderly or debilitated patients, and those with severe impairment of hepatic or renal function, hypothyroidism, Addison's disease, prostatic hypertrophy or urethral stricture. The usual precautions should be observed and the possibility of respiratory depression should be kept in mind.

<u>Cough Reflex</u> – Hydrocodone suppresses the cough reflex; as with all narcotics, caution should be exercised when hydrocodone bitartrate and acetaminophen tablets are used post-operatively and in patients with pulmonary disease.

Information for Patients – Hydrocodone, like all narcotics, may impair mental and/or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery; patients should be cautioned accordingly.

Alcohol and other CNS depressants may produce an additive CNS depression, when taken with this combination product, and should be avoided.

Hydrocodone may be habit-forming. Patients should take the drug only for as long as it is prescribed, in the amounts prescribed, and no more frequently than prescribed.

Laboratory Tests – In patients with severe hepatic or renal disease, effects of therapy should be monitored with serial liver and/or renal function tests.

Drug Interactions – Patients receiving narcotics, antihistamines, antipsychotics, antianxiety agents, or other CNS depressants (including alcohol) concomitantly with hydrocodone bitartrate and acetaminophen tablets may exhibit an additive CNS depression. When combined therapy is contemplated, the dose of one or both agents should be reduced.

The use of MAO inhibitors or tricyclic antidepressants with hydrocodone preparations may increase the effect of either the antidepressant or hydrocodone.

Drug/Laboratory Test Interactions – Acetaminophen may produce false-positive test results for urinary 5-hydroxyindoleacetic acid.

Carcinogenesis, Mutagenesis, Impairment of Fertility – No adequate studies have been conducted in animals to determine whether hydrocodone or acetaminophen have a potential for carcinogenesis, mutagenesis, or impairment of fertility.

Pregnancy

Teratogenic Effects. *Pregnancy Category C* – There are no adequate and well-controlled studies in pregnant women. Hydrocodone bitartrate and acetaminophen tablets should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nonteratogenic Effects – Babies born to mothers who have been taking opioids regularly prior to delivery will be physically dependent. The withdrawal signs include irritability and excessive crying, tremors, hyperactive reflexes, increased respiratory rate, increased stools, sneezing, yawning, vomiting, and fever. The intensity of the syndrome does not always correlate with the duration of maternal opioid use or dose. There is no consensus on the best method of managing withdrawal.

Labor and Delivery – As with all narcotics, administration of this product to the mother shortly before delivery may result in some degree of respiratory depression in the newborn, especially if higher doses are used.

Nursing Mothers – Acetaminophen is excreted in breast milk in small amounts, but the significance of its effects on nursing infants is not known. It is not known whether hydrocodone is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from hydrocodone and acetaminophen, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use – Safety and effectiveness in pediatric patients have not been established.

Geriatric Use – Clinical studies of hydrocodone bitartrate and acetaminophen 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.

Hydrocodone and the major metabolites of acetaminophen are known to be substantially excreted by the kidney. Thus the risk of toxic reactions may be greater in patients with impaired renal function due to the accumulation of the parent compound and/or metabolites in the plasma. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

Hydrocodone may cause confusion and over-sedation in the elderly; elderly patients generally should be started on low doses of hydrocodone bitartrate and acetaminophen tablets and observed closely.

ADVERSE REACTIONS

The most frequently reported adverse reactions are light-headedness, dizziness, sedation, nausea and vomiting. These effects seem to be more prominent in ambulatory than in non-ambulatory patients, and some of these adverse reactions may be alleviated if the patient lies down.

Other adverse reactions include:

Central Nervous System – Drowsiness, mental clouding, lethargy, impairment of mental and physical performance, anxiety, fear, dysphoria, psychic dependence, mood changes.

Gas trointes tinal System – Prolonged administration of hydrocodone bitartrate and acetaminophen tablets may produce constipation.

Genitourinary System – Ureteral spasm, spasm of vesical sphincters and urinary retention have been reported with opiates.

Respiratory Depression – Hydrocodone bitartrate may produce dose-related respiratory depression

by acting directly on the brain stem respiratory centers (see **OVERDOSAGE**).

Special Senses – Cases of hearing impairment or permanent loss have been reported predominantly in patients with chronic overdose.

Dermatological – Skin rash, pruritus.

The following adverse drug events may be borne in mind as potential effects of acetaminophen: allergic reactions, rash, thrombocytopenia, agranulocytosis.

Potential effects of high dosage are listed in the **OVERDOSAGE** section.

DRUG ABUSE AND DEPENDENCE

Controlled Substance – Hydrocodone bitartrate and acetaminophen tablets are classified as a Schedule III controlled substance.

Abuse and Dependence – Psychic dependence, physical dependence, and tolerance may develop upon repeated administration of narcotics; therefore, this product should be prescribed and administered with caution. However, psychic dependence is unlikely to develop when hydrocodone bitartrate and acetaminophen tablets are used for a short time for the treatment of pain.

Physical dependence, the condition in which continued administration of the drug is required to prevent the appearance of a withdrawal syndrome, assumes clinically significant proportions only after several weeks of continued narcotic use, although some mild degree of physical dependence may develop after a few days of narcotic therapy. Tolerance, in which increasingly large doses are required in order to produce the same degree of analgesia, is manifested initially by a shortened duration of analgesic effect, and subsequently by decreases in the intensity of analgesia. The rate of development of tolerance varies among patients.

OVERDOSAGE

Following an acute overdosage, toxicity may result from hydrocodone or acetaminophen.

Signs and Symptoms

<u>Hydrocodone</u> – Serious overdose with hydrocodone is characterized by respiratory depression (a decrease in respiratory rate and/or tidal volume, Cheyne-Stokes respiration, cyanosis), extreme somnolence progressing to stupor or coma, skeletal muscle flaccidity, cold and clammy skin, and sometimes bradycardia and hypotension. In severe overdosage, apnea, circulatory collapse, cardiac arrest and death may occur.

<u>Acetaminophen</u> – In acetaminophen overdosage: dose-dependent, potentially fatal hepatic necrosis is the most serious adverse effect. Renal tubular necrosis, hypoglycemic coma, and thrombocytopenia may also occur.

Early symptoms following a potentially hepatotoxic overdose may include: nausea, vomiting, diaphoresis and general malaise. Clinical and laboratory evidence of hepatic toxicity may not be apparent until 48 to 72 hours post-ingestion.

In adults, hepatic toxicity has rarely been reported with acute overdoses of less than 10 grams and fatalities with less than 15 grams.

Treatment – A single or multiple overdose with hydrocodone and acetaminophen is a potentially lethal polydrug overdose, and consultation with a regional poison control center is recommended.

Immediate treatment includes support of cardiorespiratory function and measures to reduce drug absorption. Vomiting should be induced mechanically, or with syrup of ipecac, if the patient is alert (adequate pharyngeal and laryngeal reflexes). Oral activated charcoal (1 g/kg) should follow gastric emptying. The first dose should be accompanied by an appropriate cathartic. If repeated doses are used,

the cathartic might be included with alternate doses as required. Hypotension is usually hypovolemic and should respond to fluids. Vasopressors and other supportive measures should be employed as indicated. A cuffed endo-tracheal tube should be inserted before gastric lavage of the unconscious patient and, when necessary, to provide assisted respiration.

Meticulous attention should be given to maintaining adequate pulmonary ventilation. In severe cases of intoxication, peritoneal dialysis, or preferably hemodialysis may be considered. If hypoprothrombinemia occurs due to acetaminophen overdose, vitamin K should be administered intravenously.

Naloxone, a narcotic antagonist, can reverse respiratory depression and coma associated with opioid overdose. Naloxone hydrochloride 0.4 mg to 2 mg is given parenterally. Since the duration of action of hydrocodone may exceed that of naloxone, the patient should be kept under continuous surveillance and repeated doses of the antagonist should be administered as needed to maintain adequate respiration. A narcotic antagonist should not be administered in the absence of clinically significant respiratory or cardiovascular depression.

If the dose of acetaminophen may have exceeded 140 mg/kg, acetylcysteine should be administered as early as possible. Serum acetaminophen levels should be obtained, since levels four or more hours following ingestion help predict acetaminophen toxicity. Do not await acetaminophen assay results before initiating treatment. Hepatic enzymes should be obtained initially, and repeated at 24-hour intervals.

Methemoglobinemia over 30% should be treated with methylene blue by slow intravenous administration.

The toxic dose of acetaminophen for adults is 10 grams.

DOSAGE AND ADMINISTRATION

Dosage should be adjusted according to the severity of pain and response of the patient. However, it should be kept in mind that tolerance to hydrocodone can develop with continued use and that the incidence of untoward effects is dose related.

The usual adult dosage for Hydrocodone Bitartrate and Acetaminophen Tablets USP is:

Product Strength	Usual Adult Dosage as needed for pain	The total 24-hour dosage should not exceed
5 mg/325 mg	One to two tablets every four to six hours	12 tablets
5 mg/500 mg	One to two tablets every four to six hours	8 tablets
7.5 mg/325 mg	One tablet every four to six hours	8 tablets
7.5 mg/500 mg	One tablet every four to six hours	6 tablets
7.5 mg/650 mg	One tablet every four to six hours	6 tablets
7.5 mg/750 mg	One tablet every four to six hours	5 tablets
10 mg/325 mg	One tablet every four to six hours	6 tablets
10 mg/500 mg	One tablet every four to six hours	6 tablets
10 mg/650 mg	One tablet every four to six hours	6 tablets
10 mg/660 mg	One tablet every four to six hours	6 tablets
10 mg/750 mg	One tablet every four to six hours	5 tablets

HOW SUPPLIED

Hydrocodone Bitartrate and Acetaminophen Tablets USP are supplied as follows:

		Each tabl	et contains :	
		Hydrocodone	Acetaminophen	
Strength	How Supplied	Bitartrate	Acetaniniophen	Description of tablet
5 mg/325 mg	Bottles of 100 NDC 0406-0365-01 Unit Dose (10 x 10) NDC 0406-0365-62	5 mg	325 mg	It is available as a capsule- shaped white tablet debossed with M365 on one side and bisected on the other side.
5 mg/500 mg	Bottles of 90NDC 0406-0357-09 Bottles of 100NDC 0406-0357-01 Bottles of 500NDC 0406-0357-05 Unit Dose (10 x 10)NDC 0406-0357-62	5 mg	500 mg	It is available as a capsule- shaped white tablet debossed with M357 on one side and bisected on the other side.
7.5 mg/325 mg	Bottles of 100NDC 0406-0366-01 Unit Dose (10 x 10)NDC 0406-0366-62	7.5 mg	325 mg	It is available as an unscored oval-shaped white tablet debossed with M366 on one side.
7.5 mg/500 mg	Bottles of 100NDC 0406-0358-01 Bottles of 500NDC 0406-0358-05 Unit Dose (10 x 10)NDC 0406-0358-62	7.5 mg	500 mg	It is available as a capsule- shaped white tablet debossed with M358 on one side and bisected on the other side.
7.5 mg/650 mg	Bottles of 100 NDC 0406-0359-01 Bottles of 500 NDC 0406-0359-05	7.5 mg	650 mg	It is available as a capsule- shaped white tablet debossed with M359 on one side and bisected on the other side.
7.5 mg/750 mg	Bottles of 90NDC 0406-0360-09 Bottles of 100NDC 0406-0360-01 Bottles of 500NDC 0406-0360-05	7.5 mg	750 mg	It is available as a capsule- shaped white tablet debossed with M360 on one side and bisected on the other side.
10 mg/325 mg	Bottles of 100 NDC 0406-0367-01 Bottles of 500 NDC 0406-0367-05 Unit Dose (10 x 10) NDC 0406-0367-62	10 mg	325 mg	It is available as a capsule- shaped white tablet debossed with M367 on one side and bisected on the other side.
10 mg/500 mg	Bottles of 100 NDC 0406-0363-01 Bottles of 500 NDC 0406-0363-05 Unit Dose (10 x 10) NDC	10 mg	500 mg	It is available as a capsule- shaped white tablet debossed with M363 on one side and bisected on the other side.

	0406-0363-62			
10 mg/650 mg	Bottles of 100NDC 0406-0361-01 Bottles of 500NDC 0406-0361-05 Unit Dose (10 x 10)NDC 0406-0361-62	10 mg	650 mg	It is available as a capsule- shaped blue tablet debossed with M361 on one side and bisected on the other side.
10 mg/660 mg	Bottles of 100 NDC 0406-0362-01	10 mg	660 mg	It is available as a capsule- shaped white tablet debossed with M362 on one side and bisected on the other side.
10 mg/750 mg	Bottles of 100 NDC 0406-0364-01	10 mg	750 mg	It is available as a capsule- shaped white tablet debossed with M364 on one side and bisected on the other side.

Dispense in a tight, light-resistant container (as defined in USP) with a child-resistant closure.

Storage – Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect from light.

A Schedule III Narcotic.

Mallinckrodt Inc. Hazelwood, MO 63042 USA

COVIDIEN™ Mallinckrodt

Printed in U.S.A.

Rev 10/2009



HB-APAP 5-500MG LABEL

IMAGE

HYDROCODONE BITARTRATE AND ACETAMINOPHEN

Product Information					
Product Type	HUMAN PRESCRIPT DRUG	ION Item Code (Sou	ırce)	NDC:16 113(NDC	590- C:0406-0357)
Route of Administration	ORAL	DEA Schedule		СШ	
A	Malata				
Active Ingredient/Active			n		
	Ingredient Name	DRACODONE		asis of Streng	th Strengtl
HYDRO CO DO NE BITARTRAT UNII:6 YKS4Y3WQ7)	e (UNII: NO/0 W886KK) (H)	DRUCUDUNE -		OCODONE Rtrate	5 mg
ACETAMINOPHEN (UNII: 3620	9ITL9D) (ACETAMINOPHEI	N - UNII:362O9ITL9D)	ACET	AMINOPHEN	500 mg
Inactive Ingredients					
Inactive Ingredients					
J	Ingredient N	lame			Strength
MAGNESIUM STEARATE (UNI	: 70097M6I30)	lame			Strength
MAGNESIUM STEARATE (UNII CROSPOVIDONE (UNII: 68401)	: 70097M6I30) 960MK)	ame			Strength
MAGNESIUM STEARATE (UNI CROSPOVIDONE (UNII: 68401: CELLULOSE, MICROCRYSTA	: 70097M6I30) 960MK) LLINE (UNII: OP1R32D61U)	lam e			Strength
MAGNESIUM STEARATE (UNII CROSPOVIDONE (UNII: 68401: CELLULOSE, MICROCRYSTA POVIDONE (UNII: FZ989GH94E	:: 70097M6I30) 960MK) LLINE (UNII: OP1R32D61U) :)	lame			Strength
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MAGNESIUM STEARATE (UNII CRO SPO VIDO NE (UNII: 6840 19 CELLULO SE, MICRO CRYSTA PO VIDO NE (UNII: FZ989 GH948 STARCH, CORN (UNII: 08232N SILICON DIO XIDE (UNII: ETJ72 STEARIC ACID (UNII: 4ELV7Z6 Product Characteristics	: 70097M6I30) 960MK) LLINE (UNII: OP1R32D61U) E) Y3SJ) Z6XBU4)			2 pieces	
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MAGNESIUM STEARATE (UNII CROSPOVIDONE (UNII: 68401: CELLULOSE, MICROCRYSTA POVIDONE (UNII: FZ989GH94E	: 70097M6I30) : 0087M6I30) Size	pre		•	

Packaging

	88			
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:16590-113-10	10 in 1 BOTTLE		
2	NDC:16590-113-15	15 in 1 BOTTLE		
3	NDC:16590-113-20	20 in 1 BOTTLE		
4	NDC:16590-113-30	30 in 1 BOTTLE		
5	NDC:16590-113-40	40 in 1 BOTTLE		
6	NDC:16590-113-45	45 in 1 BOTTLE		
7	NDC:16590-113-50	50 in 1 BOTTLE		
8	NDC:16590-113-56	56 in 1 BOTTLE		
9	NDC:16590-113-60	60 in 1 BOTTLE		
10	NDC:16590-113-62	84 in 1 BOTTLE		
11	NDC:16590-113-71	100 in 1 BOTTLE		
12	NDC:16590-113-72	120 in 1 BOTTLE		
13	NDC:16590-113-73	112 in 1 BOTTLE		

14	NDC:16590-113-75	75 in 1 BOTTLE			
15	NDC:16590-113-82	180 in 1 BOTTLE			
16	NDC:16590-113-86	270 in 1 BOTTLE			
17	NDC:16590-113-90	90 in 1 BOTTLE			
Μ	larketing Infor	mation			
	aulusting Category	Application Number or Monogra	nh Citation	Marketing Start Date	Marketing End Date
M	arketing Category	Application Number of Monogra	phonauon	Marketing Start Date	Marketing Life Date
M AN		ANDA089160		01/29/2010	Marketing End Dute

Labeler - STAT RX USA LLC (786036330)

Establishment					
Name	Address	ID/FEI	Business Operations		
STAT RX USA LLC		786036330	repack, relabel		

Revised: 6/2010

STAT RX USA LLC