

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

40308

DRAFT FINAL PRINTED LABELING

SAMPLE



HYDROCODONE BITARTRATE
AND ACETAMINOPHEN
TABLETS, USP (III)



Revised NOVEMBER 1998
1007360101

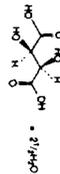
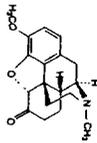


APPROVED

DESCRIPTION:

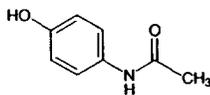
Hydrocodone bitartrate and acetaminophen is supplied in tablet form for oral administration.

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 α -epoxy-3-methoxy-17-methylmorphinan-6-one tartrate (1:1) hydrate (2:5). It has the following structural formula:



$C_{18}H_{21}NO_3 \cdot C_8H_9O_6 \cdot 2\frac{1}{2}H_2O$
Molecular Weight: 494.50

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



$C_{18}H_{25}NO_2$ Molecular Weight: 151.17

Each 2.5 mg/500 mg tablet contains:
 Hydrocodone Bitartrate... 2.5 mg
 Acetaminophen..... 500 mg

Each 5 mg/500 mg tablet contains:
 Hydrocodone Bitartrate..... 5 mg
 Acetaminophen..... 500 mg

Each 7.5 mg/500 mg tablet contains:
 Hydrocodone Bitartrate..... 7.5 mg
 Acetaminophen..... 500 mg

Each 7.5 mg/650 mg tablet contains:
 Hydrocodone Bitartrate..... 7.5 mg
 Acetaminophen..... 650 mg

Each 7.5 mg/750 mg tablet contains:
 Hydrocodone Bitartrate..... 7.5 mg
 Acetaminophen..... 750 mg

Each 10 mg/500 mg tablet contains:
 Hydrocodone Bitartrate... 10 mg
 Acetaminophen..... 500 mg

Each 10 mg/650 mg tablet contains:
 Hydrocodone Bitartrate..... 10 mg
 Acetaminophen..... 650 mg

In addition each tablet contains the following inactive ingredients: Croscopolidone, magnesium stearate, pregelatinized starch, and povidone.

The 2.5 mg/500 mg also contains FD&C red no. 40 aluminum lake HT.

The 5 mg/500 mg does not contain any dyes.

The 7.5 mg/500 mg also contains D&C yellow no. 10 aluminum lake and FD&C blue no. 1 aluminum lake.

The 7.5 mg/650 mg also contains FD&C yellow no. 6 aluminum lake.

The 7.5 mg/750 mg also contains D&C yellow no. 10 aluminum lake.

The 10 mg/500 mg also contains FD&C blue no. 1 aluminum lake, FD&C red no. 40 aluminum lake HT and D&C yellow no. 10 aluminum lake.

The 10 mg/650 mg also contains FD&C blue no. 1 aluminum lake.

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:

Hydrocodone 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.

Acetaminophen 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 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.

WARNINGS:**Respiratory Depression:**

At high doses or in sensitive patients, hydrocodone may produce dose-related 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:**

Special Risk Patients: 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.

Cough reflex: Hydrocodone suppresses the cough reflex; as with all narcotics, caution should be exercised when hydrocodone bitartrate and acetaminophen tablets are used postoperatively 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, anti-anxiety 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.

(Over)

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.

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.

Gastrointestinal 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**).

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 Substances:

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:

The following acute overdosage, toxicity may result from hydrocodone or acetaminophen.

Signs and Symptoms:

Hydrocodone: 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.

Acetaminophen: 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, or 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 hypoprolthrombinemia 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 the 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 for adults for acetaminophen is 10 g.

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.

- 2.5 mg/500 mg: The usual adult dosage is one or two tablets every four to six hours as needed for pain. The total daily dosage should not exceed 8 tablets.
- 5 mg/500 mg: The usual adult dosage is one or two tablets every four to six hours as needed for pain. The total daily dosage should not exceed 8 tablets.
- 7.5 mg/500 mg: The usual adult dosage is one tablet every four to six hours as needed for pain. The total daily dose should not exceed 6 tablets.
- 7.5 mg/650 mg: The usual adult dosage is one tablet every four to six hours as needed for pain. The total daily dose should not exceed 6 tablets.
- 7.5 mg/750 mg: The usual adult dosage is one tablet every four to six hours as needed for pain. The total daily dose should not exceed 5 tablets.
- 10 mg/500 mg: The usual adult dosage is one tablet every four to six hours as needed for pain. The total daily dose should not exceed 6 tablets.
- 10 mg/650 mg: The usual adult dosage is one tablet every four to six hours as needed for pain. The total daily dose should not exceed 6 tablets.

HOW SUPPLIED:

Hydrocodone Bitartrate and Acetaminophen Tablets, USP are available as:
2.5 mg/500 mg: Light pink mottled, capsule-shaped, scored tablet. Debossed with b/896 on one side and plain on the other side. Available in bottles of:

100 NDC 0555-0896-02
500 NDC 0555-0896-04

5 mg/500 mg: White, capsule-shaped, scored tablet. Debossed with b/915 on one side and plain on the other side. Available in bottles of:

100 NDC 0555-0915-02
500 NDC 0555-0915-04

7.5 mg/500 mg: Light green, capsule-shaped, scored tablet. Debossed with b/897 on one side and plain on the other side. Available in bottles of:

100 NDC 0555-0897-02
500 NDC 0555-0897-04

7.5 mg/650 mg: Peach, capsule-shaped, scored tablet. Debossed with b/895 on one side and plain on the other side. Available in bottles of:

100 NDC 0555-0895-02
500 NDC 0555-0895-04

7.5 mg/750 mg: Light yellow, capsule-shaped, scored tablet. Debossed with b/736 on one side and plain on the other side. Available in bottles of:

100 NDC 0555-0736-02
500 NDC 0555-0736-04

10 mg/500 mg: Light beige mottled, capsule-shaped, scored tablet. Debossed with b/919 on one side and plain on the other side. Available in bottles of:

100 NDC 0555-0919-02
500 NDC 0555-0919-04

10 mg/650 mg: Blue mottled, capsule-shaped, scored tablet. Debossed with b/898 on one side and plain on the other side. Available in bottles of:

100 NDC 0555-0898-02
500 NDC 0555-0898-04

Dispense with a child-resistant closure in a tight, light-resistant container as defined in the USP/NF.
Store at controlled room temperature 15°-30°C (59°-86°F)

A schedule CIII narcotic.

**MANUFACTURED BY
BARR LABORATORIES, INC.
POMONA, NY 10970**

BR- 896, 915, 897, 895, 736, 919, 898
Revised NOVEMBER 1998



Usual Dosage: See package
brochure for complete dosage
recommendations

Dispense with a child-resistant
closure in a tight, light-
resistant container as defined
in the USP/NF

Store at controlled room
temperature 15°-30°C
(59°-86°F)

BARR LABORATORIES, INC.
Pomona, NY 10970

R8-99
1120738020102

BARR LABORATORIES, INC.



**Hydrocodone* Bitartrate
and Acetaminophen
Tablets, USP**

7.5 mg / 750 mg

Each tablet contains:
Hydrocodone* Bitartrate 7.5 mg
*Warning: May be habit forming
Acetaminophen 750 mg

Rx only

100 Tablets

NDC 0555-0736-02



Exp. Date:
Lot No.:

APPROVED

BARR LABORATORIES, INC.

NDC 0555-0736-04

See package
brochure for complete dosage
recommendations.

Dispense with a child-resistant
closure in a tight, light-resistant
container as defined in the
USP/NF.

Store at controlled room
temperature 15°-30°C



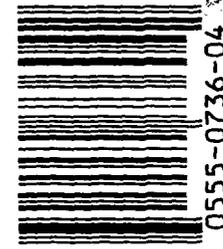
**Hydrocodone* Bitartrate
and Acetaminophen
Tablets, USP**

7.5 mg / 750 mg

Each tablet contains:
Hydrocodone* Bitartrate 7.5 mg
*Warning: May be habit forming.
Acetaminophen 750 mg

Rx only

500 Tablets



NDC 0555-0736-04

SAMPLE

Exp. Date:

Lot No.:

R8-99
1120915020102

Usual Dosage: See package
brochure for complete dosage
recommendations.

Dispense with a child-resistant
closure in a tight, light-
resistant container as defined
in the USP/NF.

Store at controlled room
temperature 15°-30°C
(59°-86°F)

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10970



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**Hydrocodone* Bitartrate
and Acetaminophen
Tablets, USP**

5 mg / 500 mg

Each tablet contains:
Hydrocodone* Bitartrate 5 mg
*Warning: May be habit forming.
Acetaminophen 500 mg

Rx only

100 Tablets

BARR LABORATORIES, INC.

NDC 0555-0915-04

See package
brochure for complete dosage
recommendations.

Dispense with a child-resistant
closure in a tight, light-resistant
container as defined in the
USP/NF.



**Hydrocodone* Bitartrate
and Acetaminophen
Tablets, USP**

5 mg / 500 mg

Each tablet contains:
Hydrocodone* Bitartrate 5 mg
*Warning: May be habit forming.
Acetaminophen 500 mg

Rx only

500 Tablets



NDC 0555-0915-04 1

SAMPLE

Exp. Date:

Lot No.:



NDC 0555-0915-02

Exp. Date:
Lot No.:

APPROVED

Store at controlled room
temperature 15°-30°C
(59°-86°F).

BARR LABORATORIES, INC.
Pomona, NY 10970

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