CENTER FOR DRUG EVALUATION AND RESEARCH

Approval Package for:

APPLICATION NUMBER:

40-084

Generic Name:

Hydrocodone Bitartrate and

Acetaminophen Tablets USP,

5/500 mg and 7.5/750 mg

Sponsor:

King Pharmaceuticals, Inc.

Approval Date:

June 1, 1995

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

40-084

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CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

40-084

APPROVAL LETTER

JUN | 1995

King Pharmaceuticals, Inc. Attention: John M. Gregory 501 Fifth Street Bristol, TN 37620

Dear Sir:

This is in reference to your abbreviated new drug application dated April 27, 1993, submitted pursuant to Section 505(j) of the Federal Food. Drug, and Cosmetic Act, for (Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/500 mg and 7.5 mg/750 mg, respectively).

Reference is also made to your amendments dated August 31, 1993, March 31, and May 1, 1995 and correspondence dated April 28, 1995.

We have completed the review of this abbreviated application and have concluded that the drug is safe and effective for use as recommended in the submitted labeling. Accordingly, the application is approved. The Division of Bioequivalence has determined your (Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/500 mg and 7.5 mg/750 mg, respectively) to be bioequivalent and, therefore, therapeutically equivalent to those of the listed drug (Vicodin® and Vicodin® ES, 5 mg/500 mg and 7.5 mg/750 mg, respectively, of Knoll Pharmaceutical Company). Your dissolution testing should be incorporated into the stability and quality control programs using the same method proposed in your application.

Under 21 CFR 314.70, certain changes in the conditions described in this abbreviated application require an approved supplemental application before the change may be made.

Post-marketing reporting requirements for this abbreviated application are set forth in 21 CFR 314.80-81. The Office of Generic Drugs should be advised of any change in the marketing status of this drug.

We request that you submit, in duplicate, any proposed advertising or promotional copy which you intend to use in your initial advertising or promotional campaigns. Please submit all proposed materials in draft or mock-up form, not final print. Submit both copies together with a copy of the proposed or final printed labeling to the Division of Drug Marketing, Advertising, and Communications (HFD-240). Please do not use Form FD-2253

(Transmittal of Advertisements and Promotional Labeling for Drugs for Human Use) for this initial submission.

We call your attention to 21 CFR 314.81(b)(3) which requires that materials for any subsequent advertising or promotional campaign be submitted, at the time of their initial use, to our Division of Drug Marketing, Advertising, and Communications (HFD-240) with a completed Form FD-2253.

Sincerely yours,

//5/

Douglas L. Sporm Acting Director

Office of Generic Drugs

Center for Drug Evaluation and Research

APPEARS THIS WAY

AN ORIGINAL

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

40-084

Final Printed Labeling

FINAL PRINT LABELS Hydrocodone Bitartrate and Acetaminophen Tablets, USP 5 mg./ 500 mg.



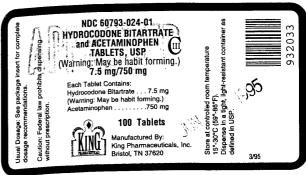






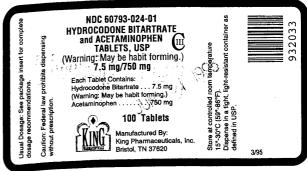
FINAL PRINT LABELS Hydrocodone Bitartrate and Acetaminophen Tablets, USP 7.5 mg./ 750 mg.







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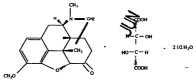




HYDROCODONE BITARTRATE* AND ACETAMINOPHEN TABLETS, USP 5/500 and 7.5/750

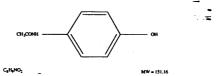
rning: May be habit forming

r. It is affected by light. The chemical name is 4, 5α-e ne tartrate (1:1) hydrate (2:5). It has the follow



Catha NO. Catha O. 2 1/2 H-O

ate analgesic and antipyretic. It has the follo



(*Warning: May be habit forming)

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.

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 centres. Acetaminophen inhibits prostaglandin synthetase. Therapeutic doses of acetaminophen have negligible effects on the cardiovascular or respiratory systems; however,

Animopher have regisque elector in the cationsection to repair any systems, nowever 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 \pm 5.2 ng/mL. Maximum serum levels were achieved at 1.3 \pm 0.3 hours and the half-life was determined to be 3.8 \pm 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-fl-hydroxymetabolites

Hydrocodone bitartrate arm water grate to moderately severe pain.

CONTRAINDICATIONS

CONTRAINDICATIONS

This product should not be administered to patients who have previously exhibited rsensitivity to hydrocodone or acetaminophen

WARNINGS

piratory 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

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, hydrocodo bitartrate and acetaminophen tablets should be used with caution in elderly or debilitate patients, and those with severe impairment of hepatic or renal function, hypothyroidism.

patients, and those with severe impairment of hepatic or renal function, hypothyroidisms. 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's 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.

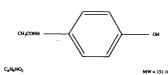
Hydrocodone may be habit-forming. Patients should take the drug only for as long as it is prescribed, in the amounts prescribed, and no more frequently than prescribed.

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, arithistamines, 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 tricycic antidepressants with hydrocodone.

C18H21NO3*C4H4O4*21/2H2O

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



Each HYDROCODONE BITARTRATE* AND ACETAMINOPHEN, USP 5/500 tablet contains

Each HYDROCODONE BITARTRATE* AND ACETAMINOPHEN, USP 7.5/750 tablet contains:

contains the following inactive ingredients: Magnesium Stearate NF, Progelatinized Star (Corn) Starch NF, Stearic Acid NF, FD&C Blue No. 1 Lake 12% and Purified Water USP 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

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.

Hydrocodong: 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 6-8-hydroxymetabolites. See OVERDOSAGE for toxicity information.

Acetaminophen: Acetaminophen is rapidly absorbed from the gastrointestinal tract and

Acetaminophen: Acetaminophen is rapidly absorbed from the gastrointestinal tract and is distributed throughout most body tissues. The plasma half-file 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 metabolises. 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 toxibity information.

Hydrocodone bitartrate and a cetamimophen tablets are indicated for the relief of erate to moderately severe path.

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 respir 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 effect 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 se 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 fitsk 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.

<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 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

physical administration product of the periodification potentially inactional states state or operating machinery; patients should be cautioned accordingly.

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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.

Drugf_aboratory 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.

444 M. C. Control of the Control

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

nic Effects: Babies born to mothers who have been taking opioids Norteratogenic Effects: states 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, wornting and fever. The intensity of the syndrome does not always correlate with the duration of maternal opioid use or does. 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.

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 inflants 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 inflants 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 recorded adverser practifics are light-headedness, dizzingss.

The most frequently reported adverse reactions are light-headedness, dizziness, sedation, nausea and vorniting. These effects seem to be more prominent in ambulate than in non-ambulatory patients, and some of these adverse reactions may be alleviate than in non-ambulatory patients.

he 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

Gastromiresum System: 1 1000,900 union minophen tablets may produce constitution.

Genitourinary System: Ureteral spasm, spasm of vesical sphinoters and urinary Genitourinary System

nournery system: Ursered spasm, spasm or rested spammeers and on many averbeen reported with opinities.

piratory Depression: Hydrocodone bitartrate may many on dose-related depression by acting directly on brain stem respiratory centers (see OVERDOSAGE).

rationy depression by acting directly on brain stem respiratory centers (see OVERDOSA Dermatological: Skin rash, pruritus.

The following adverse drug events may be borne in mind as potential effects of aminophen: allergic reactions, rash, thrombocytopenia, agranul@cytosis.

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

DRUG ABUSE AND DEPENDENCE

Controlled Substance: Hydrocodone Bitartrate and Acetaminophen Tablets are iffed as a Schotal Bill controlled substance.

ed as a Schedule III controlled substance

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 e treatment of pain.
Physical dependence, the condition in which continued administration of the drug is

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 narrotic use, atthough some mild degree of physical dependence may develop after a few days of harcotic therapy. Tolerance, in which increasingly large doses are required in order to producer 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.

OVERDOS 1.

Following an acute overdosage, toxicity may result from hydrocodone or acetaminophen. Stons and Symptoms:

Signs and Symptoms:

Hydrocodone: Serious overdose with hydrocodone is characterized by respirator depression (a decrease in respiratory rate and/or tidal volume, Cheyne-Stokes respiratory 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.

Acistaminochen: 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.

Earth symptoms follwalong a potentially benestetive systems as the state of the contraction of th

coma and thrombocylopenia 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.

Trestment: 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 m 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 charocal (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 criffed entire traches if the should be increased to the should be increased. cuffed endo-tracheal tube should be inserted before gastric lavage of the unconscious

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 hypoprothrombiemia occurs due to acetaminophen overdose, vitamin K should be administered intravenously.

Maloxone, a narcotic antagonist, can reverse respiratory depression and coma associated with noticit ouerface. Nativone butto-should to the companion of the co

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 surveillancaged repeated doses of the antagonist should be administered as needed to maintain adequate respiration. A narcotic antagonist and the patients of delicible templication are interesting or continuous. should not be administered in the absence of clinically significant respiratory or

should not be administered in the absence or 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 adhered toxicity and assayled at 44 her laterate. ed initially, and repeated at 24-hour intervals

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

The toxic dose for adults for acetaminophen is 10 a

DOSAGE AND ADMINISTRATION

DOSage should be adjusted according to 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.

HYDROCODONE BITARTRATE AND ACETAMINOPHEN TABLETS, USP 5/500: The usual adult dosage is one or two tablets every four to six hours as nageded for pain. The total daily dosage is orbud not exceed 8 tablets.

HYDROCODONE BITARTRATE* AND ACETAMINOPHEN TABLETS, USP 7.5/750: The

usual adult dosage is one lablet every four to six hours as needed for pain. The total daily dosage should not exceed 5 tablets.

HOW SUPPLIED

Each HYDROCODONE BITARTRATE*, AND ACETAMINOPHEN, USP 5/500 tablet contains Hydrocodone Bitartrate 5 mg ("Warning: May be habit forming) and Acetaminophen 500 mg. It is available as a light yellow, round bisected tablet debossed with a KPI 12

Bottles of 100. Each HYDROCODONE BITARTRATE* AND ACETAMINOPHEN, USP 7.5/750 tablet contains Hydrocodone Bitarrate 7.5 mg. Kisarate Nave Nave InamiriCPHEN, USP 7.5/750 tablet contains Hydrocodone Bitarrate 7.5 mg. Kis available as a light blue, round bisected tablet debossed with a KPI 2 identification number.

. NDC No.60793-024-01 Dispense in a tight, light-resistant container as defined in the USP. Store at co temperature 15°-30°C (59°-86°F). dule III Narcot

ederal (USA) law prohibits dispensing without prescription.

Nursing Mothers: Acetaminophen is excreted in breast milk in small amounts, but 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 nurs 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 establish ADVERISE REACTIONS

ADVERSE REACTIONS

The most frequently reported adverse reactions are light-headedness, dizziness, tion, 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 ent lies down

Central Nervous System: Drowsiness, mental clouding, lethargy, impairment of al and physical performance, anxiety, fear, dysphoria, psychic dependence, mood changes. GastroIntestinal System: Prolonged administration of hydrocodone bitartrate and

GastroIntestinal System: Prolonged administration of hydrocodone bitartra aminophen tablets may produce constipation. Genitourinary System: Ureteral spasm, spasm of vesical sphincters and unition have been reported with opiates. Respiratory Depression: Hydrocodone bitartrate may produce dose-relate

iratory depression by acting directly on brain stem respiratory centers (see OVERDOSAGE).

Dermatological: Skih rash, pruritus.

The following adverse drug events may be borne in mind as potential effects of

aminophen: 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 sified as a Schedule III controlled substance.

Abuse and Dependence: Psychic dependence, physical dependence, and toleran 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 technic homeone.

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 proportions only arier several weeks or commuted narconic use, amonum some mind oegree to hypiscial 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 analysesia, is manifested initially by a shortened duration of the analyses of fect, and subsequently by decreases in the intensity of analysesia. The rate of development of tolerance varies among patients. OVERDOSAGE

Significations: Serious overdose with hydrocodone is characterized by respiratory session (a decrease in respiratory rate and/or tidal volume, Cheyne-Stokes respiration sosis) extreme somnolence progressing to stupor or coma, seletal muscle flaccidity and clammy skin, and sometimes bradycardia and hypotension. In severe overdos cold and clammy skin, and sometim

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

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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 1 grams, or fatalities with less than 15 grams.

Treatment: A single or multiple overdose with hydrocodone and acetaminophen is a notentially lettle nobultin overdose.

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immediate invalues support of carcinorespiratory 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 hypotension should respond to fluids. Vasopressors and other supportive measures should be employed as indicated, 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 pulmontary ventilation re cases of intoxication, peritoneal dialysis, or preferably hemodialysis may be idered. If hypoprothrombinemia occurs due to acetamin should be administered intravenously.

Naloxone, a narrotic antagonist, con rewerse 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 narrotic antagonist should not be administered in the absence of clinically significant respiratory or cardiovascular depression.

cardiovascular depression.

If the dose of acetaminophen may have exceeded 140 mg/kg, acetylcysteine should b 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 enzymens 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 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 incidence⁵⁰ untoward effects is dose related.

HYDROCODONE BI*MARTRATE* AND ACETAMINOPHEN TABLETS, USP 5/500: The

usual adult dosage is one or two tablets every four to six hours as needed for pain. The tot daily dosage should not exceed 8 tablets.

HYDROCODONE BIT ATTRATE* AND ACETAMINOPHEN TABLETS, USP 7.5/750: The

usual adult dosage is one tablet every four to six hours as needed for pain. The total daily dosage should not exceed 5 tablets.

Cossage should not exceed 5 tablets.

HOW SUPPLIED

Each HYDROCODONE BITARTRATE* AND ACETAMINOPHEN, USP 5/500 tablet contains Hydrocodone Bitartrate 5 mg ("Barning: May be habit forming) and Acetamino 500 mg. It is available as a light yellow, round bisacted tablet debossed with a KPI 12 cation number.

NDC No.60793-024-01 Dispense in a tight, light-resistant container as defined in the USP. Store at controlled room temperature 15°-30°C (59°-86°F).

Federal (USA) law prohibits dispensing without prescription



CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

40-084

CHEMISTRY REVIEW(S)

- 1. CHEMIST'S REVIEW NO.: 1
- 2. ANDA #: 40-084
- 3. NAME AND ADDRESS OF APPLICANT:

RSR Laboratories, Inc. 501 Fifth Street Bristol, TN 37620

- 4. <u>LEGAL BASIS FOR ANDA SUBMISSION</u>: Innovator drugs Anexsia® (5 mg/500 mg), Beecham; and Vicodin ES® (7.5 mg/750 mg), Knoll. No patents or exclusivity remaining. Therapeutic Equivalence Category AA.
- 5. SUPPLEMENTS(s):N/A
- 6. PROPRIETARY NAME:
- 7. NONPROPRIETARY NAME: Hydrocodone Bitartrate and Acetaminophen Tablet
- 8. SUPPLEMENT(S) PROVIDE(S) FOR: N/A
- 9. AMENDMENTS AND OTHER DATES:

Firm: 4.27.93 - Original submission Subject of this review.

- 10. PHARMACOLOGICAL CATEGORY: Analgesic
- 11. Rx or OTC: Rx
- 12. RELATED IND/NDA/DMF(s): See Review Element# 37, for LOA see text.
- 13. **DOSAGE FORM:** Tablets
- 14. POTENCY: 5 mg /500 mg and 7.5 mg/750 mg
- 15. CHEMICAL NAME AND STRUCTURE:

Acetaminophen USP

 $C_8H_9NO_3$; M.W. = 151.16 4'-Hydroxyacetanilide. CAS [103-90-2]

Hydrocodone Bitartrate USP

 $C_{18}H_{21}NO_3 \cdot C_4H_6O_6 \cdot 2\frac{1}{2}H_2O$

4,5 α -Epoxy-3-methoxy-17-methylmorphinan-6-one tartrate (1:1) hydrate (2:5). CAS [34195-34-1; 6190-38-1]

- 16. <u>RECORDS AND REPORTS</u>: Labeling review, K. Roberts, 6.11.93, Not satisfactory
- 17. <u>COMMENTS</u>:

19.

REVIEWER: U. V. Venkataram

18. <u>CONCLUSIONS AND RECOMMENDATIONS</u>: The application has chemistry and labeling deficiencies and is NOT APPROVABLE.

APPEARS THIS WAY ON ORIGINAL

DATE COMPLETED: 7.28.93

Redacted

pages of trade

secret and /or

confidential

commercial

information

- chemist's review no.: 2
- . ANDA #: 40-084
- 3. NAME AND ADDRESS OF APPLICANT:

King Pharmaceuticals, Inc. 501 Fifth Street Bristol, TN 37620

- 4. <u>LEGAL BASIS FOR ANDA SUBMISSION</u>: Innovator drugs Anexsia® (5 mg/500 mg), Beecham; and Vicodin ES® (7.5 mg/750 mg), Knoll. No patents or exclusivity remaining. Therapeutic Equivalence Category AA.
- 5. SUPPLEMENTS(s):N/A
- 6. PROPRIETARY NAME:
- 7. NONPROPRIETARY NAME: Hydrocodone Bitartrate and Acetaminophen Tablet
- 8. SUPPLEMENT(S) PROVIDE(S) FOR: N/A
- 9. AMENDMENTS AND OTHER DATES:

Firm: 4.27.93 - Original submission 2.22.94 - Amendment Subject of this review.

FDA: 8.17.93 - NA letter

- 10. PHARMACOLOGICAL CATEGORY: Analgesic
- 11. Rx or OTC: Rx
- 12. RELATED IND/NDA/DMF(s): See Review Element# 37, for LOA see text.
- 13. **DOSAGE FORM:** Tablets
- 14. **POTENCIES:** 5 mg /500 mg and 7.5 mg/750 mg

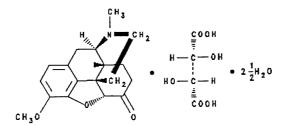
ON ORIGINAL

5. CHEMICAL NAME AND STRUCTURE:

Acetaminophen USP

 $C_8H_9NO_3$; M.W. = 151.16

4'-Hydroxyacetanilide. CAS [103-90-2]



Hydrocodone Bitartrate USP

$$C_{18}H_{21}NO_3$$
. $C_4H_6O_6$. $2\frac{1}{2}H_2O$

4,5 α -Epoxy-3-methoxy-17-methylmorphinan-6-one tartrate (1:1) hydrate (2:5). CAS [34195-34-1; 6190-38-1]

_6. <u>RECORDS AND REPORTS</u>:Labeling review, K. Roberts, 6.11.93, Not Satisfactory; Not Satisfactory, A. Vezza, 5.13.94

17. COMMENTS:



- 18. <u>CONCLUSIONS AND RECOMMENDATIONS</u>: The application has chemistry and labeling deficiencies and is NOT APPROVABLE.
- 19. REVIEWER: U. V. Venkataram DATE COMPLETED: 7.6.94

APPEARS THIS WAY ON ORIGINAL

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information

OFFICE OF GENERIC DRUGS

DIVISION OF CHEMISTRY II

ANDA REVIEW

- 1. CHEMIST'S REVIEW NO.: 3
- 2. ANDA #: 40-084
- 3. NAME AND ADDRESS OF APPLICANT:

King Pharmaceuticals, Inc. 501 Fifth Street Bristol, TN 37620

- 4. <u>LEGAL BASIS FOR ANDA SUBMISSION</u>: Innovator drugs Anexsia® (5 mg/500 mg), Beecham; and Vicodin ES® (7.5 mg/750 mg), Knoll. No patents or exclusivity remaining. Therapeutic Equivalence Category AA.
- 5. SUPPLEMENTS (s): N/A
- 6. PROPRIETARY NAME:
- 7. NONPROPRIETARY NAME: Hydrocodone Bitartrate and Acetaminophen Tablet
- 8. SUPPLEMENT(S) PROVIDE(S) FOR: N/A
- 9. AMENDMENTS AND OTHER DATES:

Firm: 4.27.93 - Original submission

2.22.94 - Amendment

10.6.94 - Amendment Subject of this review.

FDA: 8.17.93 - NA letter

8.2.94 - NA letter

- 10. PHARMACOLOGICAL CATEGORY: Analgesic
- 11. Rx or OTC: Rx
- 12. RELATED IND/NDA/DMF(s): See Review Element# 37, for LOA see text.
- 13. **DOSAGE FORM**: Tablets
- 14. **POTENCIES:** 5 mg /500 mg and 7.5 mg/750 mg

CHEMICAL NAME AND STRUCTURE:

Acetaminophen $C_8H_9NO_2$

Acetaminophen USP

 $C_8H_9NO_3$; M.W. = 151.16

4'-Hydroxyacetanilide. CAS [103-90-2]

Hydrocodana Bitartrate $c_{18}H_{21}$ NO $_5$, $c_4H_8O_5$, $2\frac{1}{2}H_2O$

4,5 α -Epoxy-3-methoxy-17-methylmorphinan-6-one tartrate (1:1) hydrate (2:5). CAS [34195-34-1; 6190-38-1]

RECORDS AND REPORTS: Labeling review, K. Roberts, 6.11.93, Not Satisfactory; Not Satisfactory, A. Vezza, 5.13.94; not satisfactory, A. Vezza, 1.18.95

17. **COMMENTS**:

- 18. <u>CONCLUSIONS AND RECOMMENDATIONS</u>: The application has chemistry and labeling deficiencies and is NOT APPROVABLE.
- 19. REVIEWER: U. V. Venkataram DATE COMPLETED: 2.2.95

APPEARS THIS WAY ON ORIGINAL

Redacted _____

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confidential

commercial

information

OFFICE OF GENERIC DRUGS

DIVISION OF CHEMISTRY II

ANDA REVIEW

- 1. CHEMIST'S REVIEW NO.: 4
- 2. ANDA #: 40-084
- 3. NAME AND ADDRESS OF APPLICANT:

King Pharmaceuticals, Inc. 501 Fifth Street Bristol, TN 37620

- 4. <u>LEGAL BASIS FOR ANDA SUBMISSION</u>: Innovator drugs Anexsia® (5 mg/500 mg), Beecham; and Vicodin ES® (7.5 mg/750 mg), Knoll. No patents or exclusivity remaining. Therapeutic Equivalence Category AA.
- 5. SUPPLEMENTS (s): N/A
- 6. **PROPRIETARY NAMES**:
- 7. <u>NONPROPRIETARY NAME</u>: Hydrocodone Bitartrate and Acetaminophen Tablet
- 8. SUPPLEMENT(S) PROVIDE(S) FOR: N/A
- 9. AMENDMENTS AND OTHER DATES:

Firm: 4.27.93 - Original submission

2.22.94 - Amendment 10.6.94 - Amendment

3.31.95 - Amendment Subject of this review.

4.28.95 & 5.1.95 - Telephone amendments Subject of this

review

FDA: 8.17.93 - NA letter

8.2.94 - NA letter

2.27.95 - NA letter

4.27.95 & 5.1.95 - Telephone request (TAmes)

- 10. PHARMACOLOGICAL CATEGORY: Analgesic
- 11. Rx or OTC: Rx
- 12. RELATED IND/NDA/DMF(s): See Review Element# 37, for LOAs see text.
- 13. DOSAGE FORM: Tablets
- 14. **POTENCIES:** 5 mg /500 mg and 7.5 mg/750 mg

15. CHEMICAL NAME AND STRUCTURE:

Acetaminophen C₈H₉NO₂

Acetaminophen USP

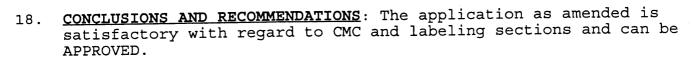
 $C_8H_9NO_3$; M.W. = 151.16

4'-Hydroxyacetanilide. CAS [103-90-2]

4,5 α -Epoxy-3-methoxy-17-methylmorphinan-6-one tartrate (1:1)hydrate (2:5). CAS [34195-34-1; 6190-38-1]

16. <u>RECORDS AND REPORTS</u>:Labeling review, K. Roberts, 6.11.93, Not Satisfactory; Not Satisfactory, A. Vezza, 5.13.94; not satisfactory, A. Vezza, 1.18.95; work sheet, A Vezza/A.Payne, 4.21.95 Acceptable.

17. **COMMENTS**:



19. REVIEWER: U. V. Venkataram DATE COMPLETED: 5.22.95; 5.26.95

APPEARS THIS WAY ON ORIGINAL

Redacted _____

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confidential

commercial

information

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

40-084

BIOEQUIVALENCE REVIEW

Hydrocodone Bitartrate/Acetaminophen 5 mg/500 mg and 7.5 mg/750 mg Tablets ANDA #40-084

Reviewer: YC Huang

40084W.493

RSR Laboratories, Inc. Bristol, TN Submission date: April 27, 1993 August 31, 1993

Review of Waiver Request

The firm requested a waiver of the <u>in vivo</u> bioequivalence study requirements for its ______ (hydrocodone bitartrate/acetaminophen) Tablets, 5 mg/500 mg and ______ (hydrocodone bitartrate/acetaminophen) Tablets, 7.5 mg/750 mg. The firm cited Anexia (hydrocodone bitartrate/acetaminophen) Tablets, 5 mg/500 mg [Beecham] and Vicodin ES (hydrocodone bitartrate/acetaminophen) Tablets, 7.5 mg/750 mg [Knoll] as the reference drug products. After receiving the advice from the Division (on selection of the reference product for the 5 mg/500 mg strength and the need for multiple time points on the dissolution data), the firm submitted an amendment on August 31, 1993 citing Knoll's Vicodin as the reference product for the 5 mg/500 mg strength. The amendment contains the dissolution data (10, 20, and 30 minutes) comparing the test products with those of the marketed products, Vicodin and Vicodin ES (both are manufactured by Knoll).

Composition of the test products

Ingredient	<pre>5 mg/500mg tablet (amount per tablet)</pre>	<pre>7.5 mg/750 mg tablet (amount per tablet)</pre>
Hydrocodone Bitartrate U Acetaminophen USP Pregelatinized Starch NF Starch NF Stearic Acid NF Magnesium Stearate NF D & C Yellow No.10 Lake FD&C Blue #1 Aluminum La Purified Water USP	0.500 g	0.0075 g 0.750 g
TOTA	AL 0.635000 g	0.925000 g

<u>Comparative dissolution testing</u> The results of the comparative dissolution testing are summarized in Table 1.

Comments

1. The test products meet the criteria for waiver of <u>in vivo</u> bioequivalence requirements set forth in CFR 320.22(c) as follows:

- a. The drug product, hydrocodone bitartrate/acetaminophen, is listed as AA drug in the Orange Book. Products coded as AA contain active ingredients and dosage forms that are not regarded as presenting either actual or potential bioequivalence problems.
- b. The <u>in vitro</u> dissolution data for the test products are acceptable.

Recommendation

- 1. The Division of Bioequivalence agrees that the information submitted by RSR Laboratories demonstrates that its hydrocodone bitartrate/acetaminophen, 5 mg/500 mg and 7.5 mg/750 mg tablets fall under 21 CFR 320.22 (c) of the bioavailability/bioequivalence regulations. The waiver of the in vivo bioequivalence study requirements for the test products is granted.
- The dissolution testing should be incorporated into the firm's manufacturing controls and stability program. The dissolution testing should be conducted in 900 mL of pH 5.8 phosphate buffer using USP XXII apparatus II (paddle) at 50 rpm. The test product should meet the following specifications:

Not less than — (Q) each of the labeled amounts of acetaminophen and hydrocodone bitartrate are dissolved in 30 minutes.

'/S/

Yih-Chain Huang, Ph.D. Division of Bioequivalence Review Branch III

RD INITIALED RMhatre FT INITIALED RMhatre

/\$/

Date 9/10/93

cc: ANDA #40-084 (original, duplicate), HFD-600 (Hare), HFD-630, HFC-130 (JAllen), HFD-658 (Mhatre, Huang), Drug File, Division File

YCHuang/09-08-93/40084W.493

Table 1. In Vitro Dissolution Testing

Drug (Generic Name): Hydrocodone Bitartrate/Acetaminophen

Dose Strength: 5 mg/500 mg and 7.5 mg/750 mg

ANDA No.: 40-084

Firm:RSR Laboratories

Submission Date: April 27, 1993 and August 31, 1993

File Name: 40084W.493

I. Conditions for Dissolution Testing:

USP XXII Basket: Paddle: X RPM: 50

No. Units Tested: 12

Medium: pH 5.8 Phosphate buffer, Volume: 900 mL

Specifications: NLT in 30 minutes

Reference Drug: Knoll's Vicodin and Vicodin ES Tablets

Assay Methodology:

II.	Results	of	In	Vitro	Disso	lution	Testing:

Times	5 mg/500 mg Hydrocodone	Reference Product (Knoll) Lot # 10760363 (Vicodin) 5 mg/500 mg
	the American has done as	++ Agotaminophen data**

** Acetami	nophen data	a ^^	^^	Acecam	THOPHEH	ua ca " "
 	T	1	1			

	Mean %	Range	%CV	Mean %	Range	%CV
10	82.2		3.7	73.6		9.6
20	93.8		3.6	79.2	process i man militar planeture "citro dell' "	5.9
30	94.6	mande a committee of the second of the secon	3.7	81.8		4.8
		Ī				

** Hydrocodone bitartrate data **

Sampling Times (Minutes)	Test Product Lot # (see above) Strength(mg)			Lot	erence Produ # (see above ngth(mg)	
	Mean %	Range	%CV	Mean %	Range	%CV
10	91.0	grant ballonin minutes and the same of the	1.1	89.6		6.7
20	93.4	Proceedings (1999 professor)	1.2	95.4	And the state of t	2.6
30	93.2	para to the control of the control o	1.2	98.4	d Nazaraport antides des des interiores an inci-	3.2

Sampling Times (Minutes)	7.5 mg/750 bitartrate	ct (Lot #PL mg Hydroco /Acetaminop nophen data	done hen	Lot #1077 Hydrocodo Acetamino	Product (Kn 0771 (Vicodi one bitartrat ophen, 7.5 mg inophen data	n ES) e/ g/750mg
	Mean %	Range	%CV	Mean %	Range	%CV
10	82.6	Commence of the Commence of th	2.5	93.4		3.3
20	92.2	Control of the second s	3.2	99.7	- Land Company of Control of Cont	2.0
30	97.0	everywhite the training that any out of	1.4	99.0	manufacture of the Control of the Co	2.1
					<u> </u>	,
** Hydroco	done bitart	rate data *	*	<u> </u>		
Sampling Times (Minutes)	Sampling Test Product Reference Product Times Lot # (see above) Lot # (see above)					
	Mean %	Range	%CV	Mean %	Range	%CV
10	94.9		1.3	94.6	A Company of the State of the S	1.6
20	96.9	production of the second secon	1.3	96.4	Control of the State of the Sta	1.5
30	97.4	The second secon	1.5	96.4	pundidada Stalinininin	1.5
					<u> </u>	

APPEARS THIS WAY ON ORIGINAL

FILE

OFFICE OF GENERIC DRUGS DIVISION OF BIOEQUIVALENCE

	CRONGOR WING
ANDA/AADA # 40-084/Supplemen7	SPONSOR: KING
DRUG: HYDROCODONE BITARTRAT	E/ACETAMINOPHEN
DOSAGE FORM: TABLET	
STRENGTHS/(s): 10 mg/660 mg	

TYPE OF STUDY: N/A

WAIVER/DISSOLUTION:

ANDA #40-084 approved on 6/1/95 for two strengths of APAP/HCB tablets: 500 mg/5 mg and 750 mg/7.5 mg; both rated AA.
Supplement to ANDA #40-084 for new strength 660 mg/10 mg
Supplement to ANDA #40-084 for new Scienger 600 mg/20 mg
Based on approved Suitability Petition (10/27/92); RLD designated in
Petition was Vicodin® ES (APAP/HCB 750 mg/7.5 mg, Knoll) which
is rated AA
Sponsor requested waiver of in vivo BE requirements based on dissolution
testing results
Results of dissolution testing: Sponsor used USP method, but reported
results for 18 tablets. Since the minimum amount dissolved for
results for to tablets. Since the minutes, the results
either component from any tablet was at 10 minutes, the results
were accepted (specifications are NLT /30 min for both AI).
were accepted (specific agentable under 21 CFP 320 22 (c)

PRIMARY REVIEWER: James D. Henderson, Ph.D. INITIAL: DATE 12-11-95	BRANCH: 11
BRANCH CHIEF: Rabindra N. Patnaik, Ph.D INITIAL: DATE 12[11[95]	BRANCH: 11
DIRECTOR, DIVISION OF BIOEQUIVALENCE: Keith K. Chan, DATE 12/12/25 DATE 12/12/25	

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

40-084

ADMINISTRATIVE DOCUMENTS

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION CENTER FOR DRUG EVALUATION AND RESEARCH

DATE:

May 31, 1995 Afana Mille

FROM:

Yana Mille, Acting Director Division of Labeling and

Program Support

SUBJECT:

ANDA 40-084, Hydrocodone Bitartrate and Acetaminophen

Tablets, Reference Listed Drug

TO:

The File

On April 27, 1993, RSR Laboratories submitted an application for Hydrocodone Bitartrate and Acetaminophen Tablets citing two reference listed drugs:

5 mg/500 mg - Anexsia (Beecham) 7.5 mg/500 mg - Vicodin ES (Knoll)

At the time they submitted the application, the Orange Book did not designate a reference listed drug for the product so the application was filed without comment.

At some time between May 19, 1993, and September 13, 1993, the Office of Generic Drugs became aware the firm had cited the incorrect reference listed drugs. According to the September 13, 1993, Bio review of waiver request, the firm was advised that the reference listed drug for the 5 mg/500 mg product was Vicodin (Knoll). Indeed, on August 31, 1993, RSR submitted correspondence to the application comparing dissolution data of the 5 mg/500 mg product to the appropriate reference listed drug, Vicodin.

However, the 356h's submitted by the RSR and subsequently King Pharmaceuticals Inc. (ownership of the application was transferred on February 17, 1994) continued to reflect Anexsia as the reference listed drug for the 5 mg/500 mg product. This was noticed while the application was undergoing office level review. It was determined that the firm needed to submit new 505(j) information prior to approval. In addition, the firm also submitted a revised 356(h) which should ensure that future submissions cite the correct reference listed drug.

In summary, the firm now has cited the correct reference listed drug, has submitted the necessary 505(j) information, the dissolution data for this AA drug is based on the correct reference listed drug (RLD) according to the bio review and the labeling will not be affected by the change in RLD.

KING PHARMACEUTICALS

501 F 3h Street

Bristo, Tennessee 37620

Fax Cover Sheet

DATE

May 31, 1995

TIME:

9:14 AM

TO:

Mr. Peter Rickman

PHONE:

301-594-0315

FDA / OGD

FAX:

301-594-1174

FROM:

Tom Rogers

PHONE:

615-989-6237

FAX:

615-989-6113

RE:

ANDA 40-084 Requester Information

Number of pages including cover sheet: 3

Mes-age

Follo ving this cover is a revised Form 3:6h listing Vicodin as the reference listed drug for the 5/500 strength tablet. This revised form is dated 3/31/95, and the contents section is marked similarly to the 356h submitted in our 3/31/95 amendment to the application. This form was dated in this fashion so that you could replace the most recently submitted Form 356h if you so desire. Please call if any further infornation is required. Thank you for your assistance.

1	DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION TO MARKET A NEW CIRUG FOR HUMAN USE			Form Approved: OM Expiration Data: Dec See OMB Statement of	ember 31, 1992
APPLICAT	ION TO MARKET A NEW [RUG FOR	HUMAN USE	FOR FOA USE ONLY	
0	AN ANTIBIOTIC DRUG FO (Title 21, Code of Federal Reg	CIR HUMAN USE		DATE RECEIVED	DATE FILED
				DIVISION ASSIGNED	NDA/ANDA NO. ASS.
NAME OF APPLICAT) it: No application may be lind unles	a completed	application form has been	received (21 CFR Part	314).
	. •			DATE OF SUBMISSION	•
	rmaceuticals, Inc.			March 31, 19 TELEPHONE NO. (Incl	
	Street, City, State and Zip Code	# - 		(615) 989-68	
	h Street Tennessee 37620			NEW DRUG OR ANTIB NUMBER (If previous)	KOTIC APPLICATION
		H		ANDA #40-084	<u>.</u>
SETABLISHED WAS		DRUG PR	ODUCT		
ESTABLISHED NAM	Bitartrate and		PROPRIETARY NAME (IF	iny)	7 · · · · · · · · · · · · · · · · · · ·
Acetaminophe	n, USP		Tablets, USP	itartrate and	Acetaminophen
CODE NAME (Han)	Д Д Д Д Д Д Д Д Д Д Д Д Д Д Д Д Д Д Д	CHEMICAL N	AME		
		4,5a-ep	oxy-3-methoxy-17 e (1:1) hydrate	-methylmorphin	an-6-one
DOSAGE FORM		ROUTE OF AL	MINISTRATION	(2.5), 4, liyur	STRENGTH(S)
	Tablets	Ora1			5.0 mg/500 mg 7.5 mg/750 mg
PROPOSED INDICAT	CINS FOR USE				<u> </u>
LIST NUMBERS OF A	For relief of moderate	41,700			
374), AND DRUĞ MI	LINVESTIGATIONAL NEW DRUBS APPLISTER FILES (21CFR 314.420) REFERRED SEE ATTA	CHED LIST	rication,	OR ANTIBIOTIC APPLIC	ATIONS (21 CFR Part
			ON (Check one)	· · · · · · · · · · · · · · · · · · ·	
☐ THIS SUBMISSION	IS A FULL APPLICATION (21 信件 314.50	THIS SU	MISSION IS AN ABBREVIA	TED APPLICATION (AN	DA) (21 CFR 314.55)
	IF AN ANDA, IDENTIFY THE APPROV	D DRUG PRO	DUCT THAT IS THE BASIS F	OR THE SUBMISSION	
	Vicodin(R) ES Tablets		HOLDER OF APPROVED AP	PLICATION Knoll Knoll	
PRESUBMISSIO		ESUBMISSION			
ORIGINAL APPI	EATION D RESUMMISSION			SUPPLEME	NTAL APPLICATION
ECIPIC REGULATIO	(S) TO SUPPORT CHANGE OF APPLICA				
			STATUS (Check one)		
	A PRESCRIPTION DRUG PRODUCT (Rx)	. ב	APPLICATION FOR AN C	VER - YHE - COUNTER	PRODUCT (OTC)
ORM FDA 356h (6/92)	PRE		IS OBSOLETÉ.		Page 1

This	!!-		CONTENTS OF APPLICATION		
	t. Inc	stion contains the following Ite	ns: (Check all that apply)		
X					
	2. Su	nmary (21 CFR 314.50 (c))			
χ	3. Ch	*mistry, manufacturing, and cor	itrol section (21 CFR 314.50 (d) (1))	
	4. 4.	\$amples (21 CFR 314.50 (#) (1)) (iubmit only upon FDA's reque	est)	
	b.	Methods Validation Package (3	1 CFR 314.50 (e) (2) (i))		
	Ç.	Labeling (21 CFft 314.50 (e) (2) (i))		
		i. draft labeling (4 copies)			
Х		il. final printed labeling (12 co	pies)		
	5. No	nclinical pharmacology and to:	cology section (21 CFR 314.50	(d) (2))	
	6. Hu	man pharmacokinetics and bios	vailability section (21 CFR 314	I.50 (d) (3))	
	7. Mi	crobiology section (21 CFR 314.5	0 (d) (4))		
	.	sical data section (21 CFR 314.5)	(d) (5))		
	9. Sa	sty update report (21 CFR 314.5) (d) (5) (vi) (b))		
	10. St	atistical section (21 CFR 314.50	d) (6))		· · · · · · · · · · · · · · · · · · ·
	11. C	ite report tabulations (21 CFR 3)	4.50 (f) (1))		
	12. C	se reports forms (21 CFR 914.50	(f) (1))		
	13. P	tent information on any paten;	which claims the drug (21 U.	S.C. 355 (b) or (c))	
	14. A	satent certification with respec	to any patent which claims t	he drug (21 U.S.C. 355 (I	b) (2) or (j) (2) (A))
	15. Q	HER (Specify)	,		
the init	tial subrito comp 1. God 2. Lab 3. In ti 4. Reg 5. Reg 6. Loc conficati	into this application with new safety infinitions, or adverse reactions in the drates	problem 1. Tagree to submit these invable letter and (3) at other times a light to approved applications, including 23 CFR 210 and 211. **Isscription drug advertising regulation in 21 CFR 314.70, 314.71, and 314. - 114.81. - 114.81. - 114.81.	parety update raports as folio s requested by FDA. If this ag the following: ons in 21 CFR 202. 72.	ws: (1) 4 months after oplication is approved, t
		MIBLE OFFICIAL OF AGENT	SIGNATURE OF RESPONSIBLE OFFI	CIAL OR AGENT	DATE
		(regory	Lol MA	egy	03/31/95
		(;C <i>hy,State,Zip Coce</i>) Street, Bristol, TN 3	[†] 620	YELEPHONE NO. <i>linclude</i> An (615) 989-6200	ee Code)
(WAR	NING:	A willfully false statement is a c	timinal offense 11 \$ C Title 1	8 Sec 1001 \	
ORM FE			######################################	-,	

KING PHARMACEUTICALS

501 F Ah Street

Bristo, Tennessee 37620

Fam Cover Sheet

DATE:

May 30, 1995

TIME:

4:49 PM

TO:

Mr. Peter Rickman

PHONE:

301-594-0315

FDA / OGD

FAX:

301-594-1174

FROI :

Tom Rogers

PHONE:

615-989-6237

FAX:

615-989-6113

RE:

ANDA 40-084 Requested Information

Number of pages including cover sheet: 3

Mesnage

I believe that the following pages will provide the information needed in association with your review of the ANDA referenced above. Please call if I can be of further assistance.

NK . 5/31/95

Certification Required by Generic Drug Enforcement Act of 1992

Pursuant to Section 306(k) of the Generic Drug Enforcement Act of 1992 (amending the Federal Food, Drug, and Cosmetic Act), King Pharmaceuticals hereby certifies that it is not debarred and that it did not and will not use in any capacity the services of any person debarred under subsections 306(a) or 306(b) in connection with this application. King Pharmaceuticals forther states that it has no relevant conviction information to list as no employees of the firm or its affiliates have been convicted of any relevant crime described in section 306(a) or 306(b) of the Generic Drug Enforcement Act of 1992.

Norman T. Miller

Senior Director, Regulatory Affairs

5/30/95 Date

OK 13/

Side-by-Side Comparison Between Reference Listed Drug and Generic Drug

		LISTED DRUG	PROPOSED DRUG
		Vicodin (hydrocodone bitartrate / acetaminophen tablets, USP 5mg/500mg)	Hydrocodone bitartrate/ acetaninophen tablets, USP 5mg/ 500 mg
Cond	rous of Use	For the relief of moderate to moderately severe pain	For the relief of moderate to moderately severe pain
Activ	Ingretients	Hydrocodone bitartrate, USP / Acetaminophen, USP	Hydrocodone bitartrate, USP / Acetaminophen, USP
Dosa	e Form	Tablet	Tablet
Ranu	of Administrat	ea Oral	Omil
Stress	14.	5 mg / :500 mg	5 mg / 500 mg

MEMORANDUM

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION CENTER FOR DRUG EVALUATION AND RESEARCH

DATE:

May 30, 1995

T0:

40-084

FROM:

Peter Rickman, CSO, Reg. Support Branch

SUBJECT:

Request for Additional Infomation

I called King Pharmaceuticals and talked to Tom Rogers to request 505(j)(2)(a) infomation or comparative data for generic and reference listed drug, and a revised dabarment/list of convictions statement that includes all affiliated people. Tom said he would fax me a copy then follow with hard copies.

DEPARTMENT OF HEALTH AND HUMAN SERVICES Public Health Service FOOD AND DRUG ADMINISTRATION

ESTABLISHMENT EVALUATION REQUEST

		Tauava		
REQUEST TYPE (Check One) □ Original (⊠ FollowUp) □ FUR /	DATE 4.28.95	PHONE NO. (301)594-0305	EER IC)	<u>Nord</u>
REQUESTORS NAME: Ubrani V. Venkataram	DIVISION:Office of Ge	neric Drugs	М	AIL CODE: HFD-647
APPLICATION AND SUPPLEMENT NUMBER: ANDA	40-084			
BRAND NAME: None	ESTABLISHED N	AME:Hydrocodone Bita	rtrate and Ace	etaminophen
DOSAGE STRENGTH: 5 mg/500 mg & 7.5 mg/7	50 mg		ST	rerile □Yes 🗵 No~
PROFILE CLASS: TCM	PRIORITY CLASSIFICATION	N (See SMG CDER-482)	0.3)	
APPLICANT'S NAME: King Pharmaceuticals, Inc.	(Formerly RSR Laborato	ries)		
APPLICANT'S ADDRESS: 501-551 Fifth Street,	Bristol, TN 37620			
COMMENTS :Pre-approval inspection		To	SC 200	\$ 10
FACILITIES TO BE EVALUATED (Name and Complete Address)	RESPONSIBILITY	DMF NUMBER/ PROFILE CODE	FKEY CIRTS ID	HFD:324 USE ONLY
1. applicant at above address	Manufacturing,		KIRA	
1. applicant at above additions	QC, packaging and stability	ТСМ	19737	M 8/3/12
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	A STATE OF THE STA	halling and the second and the secon	MALS	
		ccs	14152	46 4 34
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Name of the Self-American Committee of the Self-American Commi		NEC	16432	4 4/4/2
5. Superior and the superior constitution of	The state of the s		LUUH	
en e	Mention and season and	NEC	PRSS	#U10056
FOR HFD:324 CSO Minet	te Brance	DATE RECEIVES	3 (1
CGMP COMPLIANCE STATUS		DATE	<u> 5/12</u>	/ 55

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ANDA APPROVAL SUMMARY

ANDA: 40-084

DRUG PRODUCT: Hydrocodone Bitartrate and Acetaminophen

_RM:King Pharmaceuticals

DOSAGE FORM: Tablets

STRENGTHS:5 mg/500 mg and 7.5 mg/750 mg

CGMP STATEMENT/EIR UPDATE STATUS: Update requested, 2.2.95 Ok 5/12/95

BIO STUDY: Drug products are rated AA in orange book. No bio-equivalence study required. Satisfactory in-vitro data, waiver request granted, Y. C. Huang, 9.10.93. Recommended dissolution test and specifications are as follows: 900 mL pH 5.8 phosphate buffer, USP XXII apparatus II, 50 rpm, NLT (Q) in 30 mins.

VALIDATION - (DESCRIPTION OF DOSAGE FORM SAME AS FIRM'S):

The drug substances and drug products are articles in USP 23 (USP XXII, Supplement 8). The firm also proposes to use the compendial methods for ______ The methods were validated by the Philadelhia DO, 12.14.93. Description of dosage form has been revised since then to reflect change in name of the applicant.

STABILITY - ARE CONTAINERS USED IN STUDY IDENTICAL TO THOSE IN CONTAINER SECTION?:

Stability protocol is satisfactory.

The following containers/closures are used:

Product	Size	<u>Container</u>	<u>Closurė</u>	Others*
5 mg/500 mg	100's	100cc oblong white,	maken men yang mengana penangan kenangan dan penangan penangan penangan penangan penangan penangan penangan p Penangan penangan pe	cotton
7.5 mg/750 mg	100's	160cc oblong white,		cotton

^{*}no desiccant included.

Lot#/Batch Size	Accelerated Stability (40°C/ 75% RH)	CRT Stability (28°C)	Comments
PLT- 55/	100's/3 months	100's/24 months	satisfactory
PLT- 58/	100's/3 months	100's/24 months	satisfactory
PLT- 55/	100's/3 months	100's/6 months	satisfactory

	bottles	-	
-	bottles	_	大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大

I RELING: Worksheet, A. Vezza/4.24.95

STERILIZATION VALIDATION (IF APPLICABLE): N/A

SIZE OF BIO BATCH (FIRM'S SOURCE OF NDS OK?):N/A; DMFs and are satisfactory.

SIZE OF STABILITY BATCHES - (IF DIFFERENT FROM BIO BATCH, WERE THEY MANUFACTURED VIA THE SAME PROCESS?):

see above

PROPOSED PRODUCTION BATCH - MANUFACTURING PROCESS THE SAME AS BIO/STABILITY?:

Batch Size	Exhibit Batches Production Batch	
5 mg/500 mg	The state of the s	<u>marinine condessessivitatis i Derivora.</u>
7.5 mg/750 mg	Company of the State of the Sta	The state of the s

The manufacturing process including process instructions, process parameters and in-process controls are the same for the exhibit and production batches. The equipment are of similar design and function. The production batch sizes meet OGD PPG # 22-90.

CHEMIST:

181 181 DATE: 5. 26.95.

SUPERVISOR:

DATE: 5.26.95

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File in Dio File 40-084

RECORD OF TELEPHONE CONVERSATION/MEETING	DATE	27/95	
Called firm to clarify the discrep- ancy Activeen the product clescrip-	HOA NUMBE	4 84	
tion found on the final printed most ordering	TE INITIATED APPLICATION SPONSO		EETING MADE BY TELE- PHONE IN PERSON
Batch record (of the 10/6/94) Submission, Pg. 007.)	Hydron and a	codone	Bitaitrate
Tom Rogers informed metholthe Darkoge ensert was the correct	FIRM NAME	Pharme	controls,
description and that the	NAME AND WHOM CON	TITLE OF F	PERSON WITH N WAS HELD
corrected copy of the man-	Tom	J	
whatturing batch record &	TELEPHO		9-6237
well hardcopy to follow.			*
this request.			
SIGNATUR	DIVISION)/Chen	IGINAL IND/NDA

DEPARTMENT OF HEALTH AND HUMAN SERVICES Public Health Service FOOD AND DRUG ADMINISTRATION

ESTABLISHMENT EVALUATION REQUEST

PRIORITY

DATE 2.2.95	PHONE NO. (301)594-0305	EER 10 # 7075	
DIVISION:Offic	e of Generic Drugs	MAIL CODE: HFD-647	
40-084			
ESTABL	ISHED NAME:Hydrocodone Bitartrate	e and Acetaminophen	
DOSAGE STRENGTH: 5 mg/500 mg & 7.5 mg/750 mg			
PRIORITY CLASSI	FICATION (See SMG CDER-4820.3)		
. (Formerly RSR L	aboratories)		
Bristol, TN 3762	0		
	Ç	:XPFNITE	
		.///	
	2.2.95 DIVISION:Office 40-084 ESTABLE 750 mg PRIORITY CLASS (Formerly RSR L	2.2.95 (301)594-0305 DIVISION:Office of Generic Drugs 40-084 ESTABLISHED NAME:Hydrocodone Bitartrate	

	ACILITIES TO BE EVALUATED ame and Complete Address)	RESPONSIBILITY	DMF NUMBER/ PROFILE CODE	FKEY CIRTS ID	HFD-324 USE ONLY
1.	applicant at above address	Manufacturing,		KIPB	1 21 100
		QC, packaging and stability	ТСМ	18415	1301819119
2		American Committee of Committee	Section Contracts	MALS	
	en dans settember 1800 och 1800 med 1800 och 1800 sen 18		ccs	18926	AT 14-19-194
3		Marie	- Committee Comm	UALS	State
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			NEC	8425	AC 51243
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FOR HFD-324 CSC
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17/1/10/11/11/11/11/11/11/11/11/11/11/11/1
$M^{N/N/N/N-1} = N^{N/N/N}$

FDA 3274 (8/92) Distribution: Original and Yellow Copy: HFD-324.

'DA 40-084 HFD-647/Div File, HFD-615/MBennett, HFD-647/CSO, HFD-647/UVVenkataram FORM FDA 3274 (8/92)

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REVIEW OF PROFESSIONAL LABELING #2

Original Amendment

DRAFT - Container Labels and Insert Labeling

DATE OF REVIEW:

January 18, 1995

ANDA #: 40-084

NAME OF FIRM: King Pharmaceuticals, Inc.

NAME OF DRUG:

Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/500 mg and 7.5 mg/750 mg

DATE OF SUBMISSION: October 6, 1994

COMMENTS:

CONTAINER: (100's and 500's) Satisfactory

INSERT:

1. GENERAL COMMENT

We note that you have submitted two package inserts for this product. Please note that we would accept one insert incorporating both strengths. Please comment.

- 2. PRECAUTIONS, Pediatric Use.
 - ... in pediatric patients have not ...
- ADVERSE REACTIONS, Penultimate paragraph.
 - ... reactions, rash, thrombocytopenia ... (add comma).
- 4. DRUG ABUSE AND DEPENDENCE, Abuse and Dependence Second paragraph, fourth line.
 - ... several weeks of ... (delete
- 5. OVERDOSAGE, Acetaminophen, third paragraph.
 In adults, hepatic ... (add comma).
- 6. DOSAGE AND HOMINISTRATION (for 7.5 mg/750 mg tablet) The total da, hy dosage should not exceed 5 tablets

6. HOW SUPPLIED, Last paragraph.

... without prescription. (delete

RECOMMENDATIONS:

- 1. Inform the firm of the above comments.
- 2. Request the firm revise their insert labeling, then prepare and submit final print labels and labeling. Should further information become available relating to the safety and efficacy of this product, you may be asked to further revise your labeling prior to approval.

3. FOR THE RECORD

- a. This review was based on the Labeling Guidance (Revised 4/94) for Hydrocodone Bitartrate and Acetaminophen Tablets USP.
- b. Storage/dispensing recommendations:

ANDA:

15°-30°C; tight, light resistant

container

NDA:

There is none.

USP:

tight, light resistant container

Adolph Vezza

cc: ANDA 400840CT.94

HFD-613/AVezza/CZimmermann/JPhillips (no cc'

njq/1/27/95/40084OCT.94

Review final

	8 7 94
Fim contacted to relate clarifications to FAX dated august 10, 1994 (attached) The attached esponses prepared by UVenteateron were related. Also, explained the major/minor classificit	TELECON/MEETING INITIATED BY MADE PRODUCT NAME TELECON/MEETING MADE BY TELE- PHONE IN PERSON PRODUCT NAME
and referred Mr. Rogers to PAP6 #38-93.	Approcedone Startes and itelaminghe Tablets USP FIRM NAME King Pharmaceutical NAME AND TITLE OF PERSON WITH WHOM CONVERSATION WAS HELD Thomas Rodgers
	TELEPHONE NO. 1-615-989-6232
APPEARS THIS WAY ON ORIGINAL	DIVISION

ANDA 40084

King Pharmaceutical, Inc. 1-615-989-6200

Response to Fax dated 8/10/94

- 1. The proposed approach is satisfactory. In addition, it may be appropriate to determine the detection and quantitation limits for the actives in the assay. These limits then serve as the detectable limits for the degradants. Then from the assay of the actives the area of each peak other than that of actives and known degradants is determined and their percentage with respect to total area (excluding solvent) is calculated. This will give percent individual degradant. A sum total of all the degradants can be similarly calculated.
- 2. Yes. This is because the applicant may not be submitting protocols in the future (e.g., in Annual reports). The identification of source in stability report will assist in developing product stability as a function of the NDS source.
 - Yes. Listing excipients in the report will also allow for comparison of stability of different lots in AR.

REVIEW OF PROFESSIONAL LABELING

Original Amendment

DRAFT - Container Labels and Insert Labeling

DATE OF REVIEW:

May 4, 1994

ANDA #: 40-084

NAME OF FIRM: King Pharmaceuticals, Inc.

NAME OF DRUG:

Trade:

Generic: Hydrocodone Bitartrate and

Acetaminophen Tablets USP,

5 mg/500 mg and 7.5 mg/750 mg

DATE OF SUBMISSION: February 22, 1994

COMMENTS:

CONTAINER:

- 1. Insert a space between all numbers and "mg"
- 2. We encourage you to differentiate your two product strengths by using contrasting colors, boxing, etc.
- 3. We have forwarded your proposed proprietary names

 ' to the CDER Labeling and
 Nomenclature Committee for review and comment. We will
 defer final comment on your proposal until the comments
 are received.

INSERT:

The labeling for this drug has recently been revised. Therefore, please revise your insert labeling to be in accord with the enclosed Labeling Guidance (revised April 1994) for Hydrocodone Bitartrate and Acetaminophen Tablets USP.

RECOMMENDATIONS:

- 1. Inform the firm of the above comments.
- 2. Request the firm revise their insert labeling, then prepare and submit draft labels and labeling for our review and comment.
- 3. Please enclose Labeling Guidance with letter out.

Adolph Vezza

DEPARTMENT OF HEALTH AND HUMAN SERVICES Public Health Service FOOD AND DRUG ADMINISTRATION

ESTABLISHMENT EVALUATION REQUEST

REQUEST TYPE (Check One) ☑ Original ☐ Follow-Up ☐ FUR	DATE 1-33-15	PHONE NO.	EER ID #	
REQUESTOR'S NAME	ot a min	DIVISION Out of the money	MAIL CODE HFD-	
APPLICATION AND SUPPLEMENT NUMBER				
BRAND NAME		SHED NAME		
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DOSAGE AND STRENGTH	ng 1750 mg		STERILE NO	
PROFILE CLASS	PRIORITY CLASS	IFICATION (See SMG CL	DER-4820.3)	
APPLICANT'S NAME				
ADDRESS SUI FILM SACORA				
Br. Hal. TI) 37620				
COMMENTS		en e		
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DEPARTMENT OF HEALTH AND HUMAN SERVICES Public Health Service FOOD AND DRUG ADMINISTRATION

ESTABLISHMENT EVALUATION REQUEST

EST TYPE (Check One) riginal Follow-U	lp 🗆 FUR	DATE	PHONE NO		R ID #
\ _ 		8.10	93 DIVISION		MAIL CODE
REQUESTOR'S NAME	NUMBER	Tarana.	January 1	movie Bruss	HFD- (372
APPLICATION AND SUPPLEMENT	NUMBER				
DDAND NAME	I la la 'A		ESTABLISHED NAME		
Hydrocodene E	2. + O. 41 24 2 1 1	Child was been			
DOGAGE AND OTRENOTH					STERILE
DOSAGE AND STRENGTH	300 mg + 7	Smy /750	gor of		☐ YES ☐ NO
PROFILE CLASS		PRIORIT	Y CLASSIFICATION (S	See SMG CDER-482	0.3)
APPLICANT'S NAME	705				
ADDRESS PSP Langer lens	O. Jac				
EnrashiTh	27(27 A				
COMMENTS	0.000				
CONTRICTOR				••	
	•			APPE	ARS THIS WAY
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FACILITIES TO BE EVALUA	ATED			DMF NUMBER/	F KEY/
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(Name and Complete Address)			RESPONSIBILITY		HRTS ID HFD-324 USE ONLY
(Name and Complete Address)					HFD-324 USE ONLY
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(Name and Complete Address) 1. RSR Loboration = 13 SULFISH Secret Lobert TI 376	5nc (501-551	TEN SHOW)		TCM	HFD-324 USE ONLY
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(Name and Complete Address) 1. KSR 1997 2. 2. 576 CSO FOR HFD324	(501-55) 026		Mancheson of the Comment of the Comm	DATE RECEIVE	
(Name and Complete Address) 1. K. S. G.	5nc (501-551		Mancheson of the Comment of the Comm		

REVIEW OF PROFESSIONAL LABELING

ANDA

DRAFT - Container Labels and Insert Labeling

DATE OF REVIEW: 6-3-93

ANDA #: 40-084

NAME OF FIRM: RSR Laboratories, Inc.

NAME OF DRUG:

Trade:

Generic: Hydrocodone Bitartrate and

Acetaminophen Tablets USP, 5 mg/500 mg and 7.5 mg/750 mg

DATE OF SUBMISSION: 4-27-93

COMMENTS:

Container: (100's)

1. Include the established name directly below the proprietary name:

Hydrocodone* Bitartrate and Acetaminophen Tablets USP

*Warning: May be habit forming.

[Note: We encourage the inclusion of "USP"]

- 2. We would encourage a prominent expression of strength immediately beneath the established name.
 - "5 mg/500 mg" or "7.5 mg/750 mg"
- 3. 7.5 mg/750 mg "Usual Dosage" rather than "
- 4. Delete before your storage recommendations.
- 5. Your controlled substance symbol for your 5 mg/500 mg product obliterates the print on your label. In addition, your symbol on your 7.5 mg/750 mg labels is barely discernable.

Insert:

- 1. General Comments
 - a. We note the quality of submission is very poor and difficult to read. Please improve upon the quality. We defer final review and comment until such time.
 - b. The established name should be used at least once in the running text in association with the proprietary name [refer to 21 CFR 201.10(g)(1) for guidance].
- 2. 5 mg/500 mg
 - a. Replace ' with "hydrocodone bitartrate and acetaminophen tablets" throughout the text of the insert.
 - b. Title Revise the established name to read:

Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/500 mg

[Note: We encourage the inclusion of the strength]

- c. DESCRIPTION
 - i) Paragraph 1 Revise to read:

Each tablet for oral administration contains: In addition, each tablet contains the following inactive ingredients ...

(Note: Please include the botanical source of the starch)

ii) Paragraph 2, line 4 -

"α" rather than '--

iii) Paragraph 3, line 3 -

... odorless, crystalline ...

(include the comma)

- iv) "Its structural formula is..."
- d. PRECAUTIONS "Pregnancy" rather than '
- e. DRUG ABUSE AND DEPENDENCE
 - i) "Controlled Substances Act" (plural)
 - ii) Paragraph 1 should be split into two paragraphs. The new paragraph begins with, "Psychic dependence, physical ..."

f. HOW SUPPLIED

- i) Revise to read (Hydrocodone* Bitartrate and Acetaminophen Tablets USP) (*Warning: May be habit forming), 5 mg/500 mg is available as ...
- ii) We encourage you to include the dispensing recommendations.

3. 7.5 mg/750 mg

a. Title - Include the established name and expression of strength:

Hydrocodone Bitartrate and Acetaminophen Tablets USP, 7.5 mg/750 mg

b. DESCRIPTION

- i) Refer to comments 2c.(ii), and 2c.(iii) and 2c.(iv) above.
- ii) Paragraph 1, sentence 1 Revise to read:

Each Tablet (Hydrocodone Bitartrate and Acetaminophen Tablets USP), for oral administration, contains.... In addition, each tablet contains the following inactive ingredients ...

(Note: Please include the botanical source of the starch and "1" after "FD&C Blue No.")

- c. WARNINGS Delete the first paragraph. This information does not pertain to your product.
- d. PRECAUTIONS, Pregnancy

 - ii) Paragraph 2, line 9 "There" (capital
 "T")
- e. ADVERSE REACTIONS, paragraph 1, line 5 ...these adverse reactions ...
- f. DRUG ABUSE AND DEPENDENCE "Controlled Substances Act" (plural)
- q. OVERDOSAGE
 - i) Paragraph 4, line 2 "syrup of ipecac"
 - ii) Paragraph 5, line 3 "overdose"
 (spelling)
- h. HOW SUPPLIED
 - i) Include the established name and proprietary names as follows:
 - (Hydrocodone* Bitartrate and Acetaminophen Tablets USP) (*Warning: May be habit forming), 7.5 mg/750 mg is available as...
 - ii) We would encourage the inclusion of the "CAUTION: Federal law..." statement.

RECOMMENDATIONS:

- 1. Inform the firm of the above comments.
- 2. Request the firm revise their labels and labeling, then prepare and submit twelve final printed labels and labeling (or draft, if you prefer). Should further information become available relating to the safety and efficacy of this product, you may be asked to further revise your labeling prior to approval.

3. FOR THE RECORD

- a. This review is based on the Labeling Guidance revised 8/87, with minor modification.
- Storage/dispensing recommendations 15°-30°C;
 tight, light-resistant
- c. Scoring Both strengths are scored. (There is no innovator product)

d. ____

Khyati Roberts

JSP3

cc: HFD-638/KRoberts/JPhillips (no cc) mpd/6/10/93/40084apr.93

REVIEW

Final

191 4/14/93

TIDESI 92891

CODEINE WITH ACETAMINOPHEN, ASPIRIN, AND CAFFEINE FOR ORAL USE Drugs for Human Use; Drug Efficacy Study

Implementation

The Food and Drug Administration has evaluated a report received from the National Academy of Sciences-National Research Council, Drug Efficacy Study Group, on trigesic with codeine tablets (NDA 7-289) containing codeine. acetaminophen, aspirin, and caffeine; E. R. Squibb & Sons, Division Olin Mathieson Chemical Corp., 745 Fifth Avenue, New York, N.Y. 10022.

Such drugs are regarded as new drugs (21 U.S.C. 321(p)). Supplemental new drug applications are required to revise the labeling in and to update previously approved applications providing for such drugs. A new drug application is required from any person marketing such drug

without approval. A. Effectiveness classification. 1. The Food and Drug Administration has considered the Academy's report, as well as other available evidence, and concludes that combination dregs containing co-deine with acetamin when, aspirin, and caffeine are effective for the relief of mild to moderate pain.

B. Conditions for approval and marketing: The Food and Drug Administration is prepared to approve abbreviated new drug applications and abbreviated supplements to previously approved new drug applications under conditions described herein.

1. Form of drug. Preparations containing codeine, acetaminophen, aspirin, and caffeine are in tablet form suitable for oral administration.

2. Labeling conditions. a. The label bears the statement, "Caution: Federal law prohibits dispensing without prescription."

b. The drug is labeled to comply with all requirements of the Act and regulations, and the labeling bears adequate information for safe and effective use of the drug(s). The indication for use is: For the relief of mild to moderate pain.

3. Marketing status. Marketing of such drugs may be continued under the conditions described in the notice entitled Conditions for Marketing New Drugs Evaluated in Drug Efficacy Study, published in the Federal Register July 14, -1970 (35 FR 11273), as follows:

a. For holders of "deemed approved" new drug applications (i.e., an application which became effective on the basis of safety prior to October 10, 1962), the submission of a supplement for revised labeling and an abbreviated supplement for updating information as described in paragraph (a) (1) (1) and (iii) of the notice of July 14, 1970.

b. For any person who does not hold an approved or effective new drug application, the submission of an abbreviated new drug application as described in paragraph (a) (3) (1) of that notice.

c. For any distributor of the drug, the use of labeling in accord with this announcement for any such drug shipped within the jurisdiction of the Act as described in paragraph (b) of that notice.

A copy of the Academy's report has been furnished to the firm referred to above. Communications forwarded in response to this announcement should be identified with the reference number DESI 7289, directed to the attention of the appropriate office listed below, and addressed to the Food and Drug Administration, 5500 Fishers Lane, Rockville, MD 20852.

Supplements (identify with NDA number): Office of Scientific Evaluation (BD-100). Bureau of Drugs.

Requests for the Academy's report: Drug Efficacy Study Information Control (BB-66), Bureau of Drugs.

All other communications regarding this announcement: Drug Efficacy Study Implementation Project Office (DD-60), Bureau of Drugs.

All identical, related, or similar products, not the subject of an approved new drug application, are covered by the new drug application reviewed and are subject to this notice. See 21 CFR 120.40 (37 FR 23185, October 31, 1972). Any person who wishes to determine whether a specific product is covered by this notice should write to the Food and Drug Administration, Bureau of Drugs, Office of Compliance (BD-300), 5600 Fishers Lane, Rockville, MD 20352.

This notice is issued pursuant to provisions of the Federal Food, Drug, and Cosmetic Act (secs. 502, 505, 52 Stat. 1050-53, as amended; 21 U.S.C. 352, 355) and the Administrative Procedure Act (5 U.S.C. 554) and under the authority delegated to the Commissioner of Food and Drugs (21 CFR 2.120).

Dated: January 26, 1973.

SAM D. FINE, Associate Commissioner for Compliance,

-- (FR Doc.73-2017-Filed 2-1-73;8:45 am)

FEDERAL REGISTER, VOL. 38, NO. 22-FRIDAY, FEBRUARY 2, 1973

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

40-084

CORRESPONDENCE

King Pharmaceuticals, Inc. 501 Fifth Street Bristol, Tennessee 37620



1-800-336-7783 1-615-989-6200 Fax 1-615-989-6113

Thomas K. Rogers, III

Manager Regulatory Affairs

May 1, 1995

Mr. Tim Ames, CSO
Division of Chemistry, II
Office of Generic Drugs, CDER, FDA
Document Control Room
Metro Park North II
7500 Standish Place, Room 150
Rockville, Maryland 20855-2773

NDA ORIG AMENDMENT

Re: Minor Amendment - ANDA #40-084; Hydrocodone Bitartrate and Acetaminophen Tablets, USP,

5 mg./500 mg. and 7.5 mg./750 mg.

Dear Mr. Ames:

The enclosed scale-up batch records for both of the above referenced tablet strengths have been revised in response to our telephone conversations of 4/27/95 and 5/1/95. The revisions consist of changing the tablet monograms from ______ designations to KPI 12 for the 5/500 tablet strength and to KPI 2 for the 7.5/750 tablet strength. These tablet monograms are consistent with the final labeling that was submitted with the 3/31/95 Minor Amendment to the Application.

Additionally, the product numbers on the batch records have also been revised. The product number is merely an in-house identification numbering system. Should you have any further questions, please contact me directly at 615-989-6237 or by FAX at 615-989-6113. Thank you for your assistance in this matter.

Yours truly,

Thomas K. Rogers, III

enclosure

cc:

Mr. Jeff Gregory Mr. John Gregory

Mr. Norm Miller

TR/40-084-8.doc

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MAY 0 2 1995

GENERIC DE JOS

King Pharmaceuticals, Inc. 501 Fifth Street Bristol, Tennessee 37620



1-800-336-7783 1-615-989-6200 Fax 1-615-989-6113

Thomas K. Rogers, III

Manager Regulatory Affairs

April 28, 1995

Mr. Tim Ames, CSO
Division of Chemistry, II
Office of Generic Drugs, CDER, FDA
Document Control Room
Metro Park North II
7500 Standish Place, Room 150
Rockville, Maryland 20855-2773

NEW CORRESP

Re: ANDA #40-084; Hydrocodone Bitartrate and Acetaminophen Tablets, USP, 5 mg./500 mg. and 7.5 mg./750 mg.

Dear Mr. Ames:

The enclosed batch record for the 5/500 tablet strength is revised to correct the table monogram from _____ to KPI 12. This change was made in response to our telephone discussion on 4/27/95. Additionally, the product number on the batch record has also been revised. This number is merely an in-house product identification numbering system. A copy of this revised batch record has already been forwarded to you via FAX on 4/28/95, in accordance with your directions.

Should you have any further questions, please contact me directly at 615-989-6237 or by FAX at 615-989-6113. Thank you for your assistance in this matter.

Yours truly,

Thomas K. Rogers, III

enclosure

cc:

Mr. Jeff Gregory

Mr. John Gregory Mr. Norm Miller

TR/40-084-7.doc

RECEIVED

MAY 0 1 1995

GENERIC DRUGS

King Pharmaceuticals, Inc. 501 Fifth Street Bristol, Tennessee 37620



1-800-336-7783 . 4619 1-615-989-6200 Fax 1-615-989-6113

March 31, 1995

Thomas K. Rogers, III

Manager

Regulatory Affairs

Frank O. Holcombe, Jr., Ph.D.
Acting Director
Division of Chemistry, II
Office of Generic Drugs, CDER, FDA
Document Control Room
Metro Park North II
7500 Standish Place, Room 150
Rockville, Maryland 20855-2773



AMENDMENT N-AMFPL

Re: Minor Amendment - ANDA #40-084; Hydrocodone Bitartrate and Acetaminophen Tablets, USP, 5 mg./500 mg. and 7.5 mg./750 mg.

Dear Dr. Holcombe:

An Abbreviated New Drug Application (ANDA) for Hydrocodone Bitartrate and Acetaminophen Tablets, USP, 5 mg./500 mg. and 7.5 mg./750 mg. was submitted to the Agency on April 27, 1993, pursuant to Section 505(j) of the Federal Food, Drug and Cosmetic Act. Major Amendments to the application were subsequently filed on February 22, 1994, and October 6, 1994. In its letter of February 27, 1995, the Agency advised that the submission was not approvable for the reasons stated. We are confident that this minor amendment appropriately and satisfactorily addresses the remaining outstanding deficiencies of the submission.

Additional tests were conducted for the purpose of generating data in response to the questions raised by the two remaining chemistry deficiencies. The data from these studies are presented within the identified subsections. The previously submitted draft inserts for each product strength have been combined into a single product insert as suggested in the general comment. Requested revisions to the text of the product insert have been made; these revisions are highlighted in the annotated copy of the final draft insert. Twelve (12) copies of the final print labels for 100 count bottles of each product strength and twelve (12) copies of final print product inserts are provided as requested. Please note that although the draft container labels for 500 count bottles were found to be acceptable, no stability data in larger size containers have been filed within this application. Consequently, no final print labels for larger containers have been included. To facilitate the review process, each deficiency noted in the letter has been addressed in point-by-point fashion within this response.

This amendment is herewith submitted in duplicate with the archival copy contained within a blue binder and the review copy in a red binder. We further certify that a true third copy of this amendment has been submitted concurrently via certified mail to the Nashville District Office of FDA. Inquiries concerning this application may be directed to my attention at the above address. Alternatively, I may be reached by phone directly at 615-989-6237 or by FAX at 615-989-6113.

Yours truly,

Thomas K. Rogers, II

cc:

Mr. John M. Gregory

Mr. Jefferson J. Gregory

Mr. Norman T. Miller

RECEIVED

APR 0.4 1995

TR/40-084-5.doc

GENERIC DRUGS



OFFICE OF GENERIC DRUGS, CDER, FDA Document Control Room Metro Park North II 7500 Standish Place, Room 150 Rockville, MD 20855-2773



DATE: 228 95

TO: King Hamaceuticals TAL FROM: OGD

Attn: John M. Gregory Tim Ames

PHONE: 1-800-336-77 83 PHONE: (301) 594-0309

NUMBER OF PAGES: 7
(Excluding Cover Sheet)

With this facsimile, the Office of Generic Drugs is providing you with a copy of a not approvable letter requesting your response in the form of a MINOR AMENDMENT for the following abbreviated new drug/antibiotic application:

ANDA/AADA NUMBER: 40-084 DATE OF LETTER: 22195

NAME OF DRUG PRODUCT: Actagesic & Actagesic ES

SPECIAL INSTRUCTIONS:

Atta: Tom Rogers

THIS DOCUMENT IS INTENDED ONLY FOR THE USE OF THE PARTY TO WHOM IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL, OR PROTECTED FROM DISCLOSURE UNDER APPLICABLE LAW. If received by someone other than the addressee or a person authorized to deliver this document to the addressee, you are hereby notified that any disclosure, dissemination, copying, or other action to the content of this communication is not authorized. If you have received this document in error, please immediately notify us by telephone and return it to us by mail at the above address.



Food and Drug Administration Rockville MD 20857

ANDA 40-084

King Pharmaceuticals, Inc. Attention: John M. Gregory 501 Fifth Street Bristol, TN 37620

FEB **2 7** 1995

Dear Sir:

This is in reference to your abbreviated new drug application dated April 27, 1993, submitted pursuant to Section 505(j) of the Federal Food, Drug, and Cosmetic Act, for

(Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/500 mg and 7.5 mg/750 mg, respectively).

Reference is also made to your amendment dated October 6, 1994.

The application is deficient and, therefore, not approvable under Section 505 of the Act for the following reasons:

A. Chemistry Deficiencies

⊥.

2.

B. Labeling Deficiencies

CONTAINER: (100's and 500's) Satisfactory

INSERT:

1. GENERAL COMMENT

We note that you have submitted two package inserts for this product. Please note that we would accept one insert incorporating both strengths. Please comment.

- 2. PRECAUTIONS, Pediatric Use.... in pediatric patients have not ...
- 3. ADVERSE REACTIONS, Penultimate paragraph.... reactions, rash, thrombocytopenia ... (add comma).
- 4. DRUG ABUSE AND DEPENDENCE, Abuse and Dependence Second paragraph, fourth line.
 - ... several weeks of ... (delete
- 5. OVERDOSAGE, Acetaminophen, third paragraph.

 In adults, hepatic ... (add
- 6. HOW SUPPLIED, Last paragraph.... without prescription. (delete ______
- 7. DOSAGE AND ADMINISTRATION (for 7.5 mg/750 mg tablet). The total daily dosage should not exceed 5 tablets.

We request you revise your insert labeling, then prepare and submit final print labels and labeling. Should further information become available relating to the safety and efficacy of this product, you may be asked to further revise your labeling prior to approval.

The file on this application is now closed. You are required to take an action described under 21 CFR 314.120 which will either amend or withdraw the application. Your amendment should respond to all the deficiencies listed. A partial reply will not be considered for review, nor will the review clock be reactivated until all deficiencies have been addressed. The response to this

letter will be considered a MINOR amendment and should be so designated in your cover letter. If you have substantial disagreement with our reasons for not approving this application, you may request an opportunity for a hearing.

Sincerely yours,

Frank O. Holcombe, Jr., Ph.D.
Acting Director
Division of Chemistry II
Office of Generic Drugs
Center for Drug Evaluation and Research

cc: Enclosure

CIII

HYDROCODONE BITARTRATE AND ACETAMINOPHEN TABLETS USP

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 4.5α -epoxy-3-methoxy-17-methylmorphinan-6-one tartrate (1:1) hydrate (2:5). It has the following structural formula:

C₁₈H₂₁NO₃. C₄H₆O₆. 2½H₂O

MW = 494.50

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:

C₈H₉NO₂

MW = 151.16

Hydrocodone Bitartrate and Acetaminophen Tablets USP

Labeling Guidance Revised 4/94

Each tablet contains:

Hydrocodone Bitartrate ____mg

(Warning: May be habit forming

Acetaminophen ____mg

In addition each tablet contains the following inactive ingredients:

We note that in accordance with good pharmaceutical practice, all dosage forms should be labeled to cite all the inactive ingredients (refer to USP General Chapter <1091> for guidance). We believe this is an important public health measure.

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 \pm 5.2 ng/mL. Maximum serum levels were achieved at 1.3 \pm 0.3 hours and the half-life was determined to be 3.8 \pm 0.3 hours. Hydrocodone exhibits a complex pattern of metabolism including 0-demethylation, N-demethylation and 6-keto reduction to the corresponding 6- α - and 6- β -hydroxymetabolites.

See OVERDOSAGE for toxicity information.

Hydrocodone Bitartrate and Acetaminophen Tablets USP

Labeling Guidance Revised 4/94

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

Labeling Guidance Revised 4/94

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 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, 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.

Labeling Guidance Revised 4/94

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 children 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.

Labeling Guidance Revised 4/94

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 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 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.

Labeling Guidance Revised 4/94

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, 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 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

Labeling Guidance Revised 4/94

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 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.

[Choose the appropriate statement(s) based upon the strength of your product.]

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/650 mg: The usual adult dosage is one tablet every four to six hours as needed for pain. The total daily dosage should not exceed 6 tablets.

HOW SUPPLIED

- Established name and strength
- Packaging
- Shape, color, coating, scoring, etc...
 - Special handling and storage conditions

Manufacturer/Distributor's name and place of business. Date of latest revision.

J . Hart 1 74"

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Labeling Guidance Revised 4/94

GUIDELINES FOR CONTAINER LABELS

Applicants have proposed a variety of formats in expressing the name of this product. The established name for this product is:

HYDROCODONE BITARTRATE AND ACETAMINOPHEN TABLETS USP

[Note: We would encourage the inclusion of "USP"]

To meet both the requirements for use of the established name and the need to easily identify the intended product without undue repetition, we suggest the following:

Hydrocodone* Bitartrate	 mg
and	
Acetaminophen	 mg
Tablets USP	

*Warning: May be habit forming.

Please note that the milligram amounts of hydrocodone bitartrate and acetaminophen would appear in a separate print type or colored boxes so as not to be a part of the established name, yet be positioned such that the drug component is easily identifiable to the appropriate strength.

If the above format is not possible we suggest the following:

Hydrocodone* Bitartrate and Acetaminophen Tablets USP ____ mg/_ mg

*Warning: May be habit forming.

2. We recommend the Usual Dosage statement read:

Usual Dosage: See package insert for complete dosage recommendations.

King Pharmaceuticals, Inc. 501 Fifth Street Bristol, Tennessee 37620



1-800-336-7783 1-615-989-6200 Fax 1-615-989-6232

October 6, 1994

Mr. Doug Sporn
Director
Office of Generic Drugs
Center for Drug Evaluation and Research
Food and Drug Administration
Metro Park North II
7500 Standish Place, Room 150
Rockville, Maryland 20855

MIAC AMENDMENT CRAFT Labeligo

Re: Major Amendment - ANDA #40-084; Hydrocodone Bitartrate and Acetaminophen Tablets, USP, 5 mg./500 mg. and 7.5 mg./750 mg.

Dear Mr. Sporn:

An Abbreviated New Drug Application (ANDA) for Hydrocodone Bitartrate and Acetaminophen Tablets, USP, 5 mg./500 mg. and 7.5 mg./750 mg. was submitted to the Agency on April 27, 1993, pursuant to Section 505(j) of the Federal Food, Drug and Cosmetic Act. A Major Amendment to this application was subsequently filed on February 22, 1994. In its letter of August 2, 1994, the Agency advised that the submission was not approvable for the reasons stated. A letter requesting clarification on two of the deficiencies cited was sent to the Agency on August 10, 1994, and Mr. Tim Ames responded to our inquiries by telephone on August 17, 1994. A copy of that letter and an internal memorandum which summarizes the conversation with Mr. Ames are provided with this letter. We are confident that this amendment appropriately and satisfactorily addresses the remaining outstanding deficiencies of the submission.

As requested, additional analytical test methods for monitoring potential degradants in the drug product have been added to both the release and stability test procedures. The sampling plan for in-process monitoring of tablet weights has been revised to comply with Appropriate revisions to the proposed batch records and the stability data record sheets have been made as requested, and additional stability data for the new container / closure system are provided for review. To facilitate the review process, each deficiency noted in the letter has been addressed in point-by-point fashion.

Jadine,

Mr. Doug Sporn October 6, 1994 Page 2

Inquiries concerning this application may be directed to my attention at the above address or by calling (615) 989-6200.

Yours truly,

KING PHARMACEUTICALS, INC.

John M. Gregory

Chief Executive Officer

APPEARS THIS WAY ON ORIGINAL



1-800-336-7783 1-615-989-6200 Fax 1-615-989-6232

October 6, 1994

Roger Williams, M.D.
Director
Office of Generic Drugs
Center for Drug Evaluation and Research
Food and Drug Administration
Metro Park North II
7500 Standish Place, Room 150
Rockville, Maryland 20855

RE: Amendment - ANDA #40-084; Hydrocodone Bitartrate and Acetaminophen Tablets, USP

Dear Dr. Williams:

In accordance with 21 CFR 314.60, the purpose of this letter is to certify that a true copy of the above referenced Amendment, submitted to the Office of Generic Drugs, on October 6, 1994 was sent on the same date to the Nashville District of the Food and Drug Administration.

Yours sincerely,

KING PHARMACEUTICALS, INC.

Horman T. Miller

Norman T. Miller

Director, Regulatory Affairs

Attachment (Federal Express Tracking # 2880494385)



King Pharmaceuticals, Inc. 501 Fifth Street Bristol, Tennessee 37620



1-800-336-7783 1-615-989-6200 Fax 1-615-989-6113

Norman T. Miller Director

August 8, 1994

Regulatory Affairs

C. Greg Guyer, Ph.D. Director Division of Chemistry II Office of Generic Drugs Center for Drug Evaluation and Research Food and Drug Administration Metro Park North II 7500 Standish Place, Room 150 Rockville, Maryland 20855

Re: MAJOR AMENDMENT - ANDA #40-084; Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/500 mg 7.5 mg/750 mg -

Dear Dr. Guyer:

Reference is made to the Not Approvable letter of August 2, 1994, issued by your office in response to the Major Amendment submitted by King Pharmaceuticals, Inc. dated February 22, 1994, pertaining to our pending application (ANDA #40-084).

In accordance with 21 CFR 314.120(1), this letter is to inform you of our intention to file an amendment in response to the Not Approvable letter thereby extending the review period under 314.60. This will be considered a Major Amendment as the letter of response will so indicate.

If you should have any questions please contact me directly at (615) 989-6253.

Sincerely,

KING PHARMACEUTICALS, INC.

Norman T. Miller

Director, Regulatory Affairs

NTM:ms

CERTIFIED MAIL - RETURN RECEIPT REQUESTED - P 376 510 7 RECEIVED

AUG 1 6 1994

GENERIC DRUGS

King Pharmaceuticals, Inc. 501 Fifth Street Bristol, Tennessee 37620



1-800-336-7783 1-615-989-6200 Fax 1-615-989-6282

John Gregory Chief Executive Officer

NEW CORRESPONDENCE

April 4, 1994

NEW CORRESP

Roger Williams, M.D.
Director
Office of Generic Drugs
Center for Drug Evaluation and Research
Food and Drug Administration
Metro Park North II
7500 Standish Place, Room 150
Rockville, Maryland 20855

RE: The MAJOR AMENDMENT - ANDA #40-084; Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5mg/500mg, and 7.5mg/750mg, Submitted on February 22, 1994.

Dear Dr. Williams:

In accordance with 21 CFR 314.60, the purpose of this letter is to certify that a true copy of the above referenced Major Amendment, submitted to the Office of Generic Drugs, Division of Chemistry II, on February 22, 1994 was sent on that same date to the Nashville District of the Food and Drug Administration.

Yours sincerely,

KING PHARMACEUTICALS, INC.

John M. Gregory Chief Executive Officer

JMG:bhh

RECEIVED

APR 6 1994

GENERIC DRUGS

AUG 2 1994

King Pharmaceuticals Attention: John M. Gregory 501 Fifth Street Bristol, TN 37620

Dear Sir:

This is in reference to your abbreviated new drug application dated April 27, 1993, submitted pursuant to Section 505(j) of the Food, Drug, and Cosmetic Act, for and ES™ (Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/500 mg and 7.5 mg/750 mg, respectively).

Reference is also made to your amendment dated February 22, 1994.

The application is deficient and, therefore, not approvable under Section 505 of the Act for the following reasons:

- A. Chemistry Deficiencies
 - 1. Regarding manufacturing and processing:



2. Regarding containers and closures:

The USP test data that you have provided in support of Wheaton bottles is satisfactory. However, please note that you have not provided stability data of the product packaged in the proposed new container/closure system (i.e., using We require that the product stability data be determined in the exact We acknowledge that marketed container/closure system. are both the bottles from bottles. You are hereby advised that you have two options to address the problem: 1) to determine stability data in the proposed new container/closure system, or 2) to provide USP test data for the previous container/closure system with the option of supplementing the application for the new container/closure system after approval.

3. Regarding laboratory controls:

4. Regarding the stability studies:

As requested in our previous Not Approvable letter please include drug substance sources and current product formulation in the stability report. Please revise and resubmit.

B. Labeling Deficiencies

CONTAINER:

- 1. Insert a space between all numbers and "mg"
- 2. We encourage you to differentiate your two product strengths by using contrasting colors, boxing, etc.
- 3. We have forwarded your proposed proprietary names to the CDER
 Labeling and Nomenclature Committee for review and comment. We will defer final comment on your proposal until the comments are received.

INSERT:

The labeling for this drug has recently been revised. Therefore, please revise your insert labeling to be in accord with the enclosed Labeling Guidance (revised April 1994) for Hydrocodone Bitartrate and Acetaminophen Tablets USP.

We request you revise your insert labeling, then prepare and submit draft labels and labeling for our review and comment.

The file on this application is now closed. You are required to take an action described under 21 CFR 314.120 which will either amend or withdraw the application. Your amendment should respond to all the deficiencies listed. A partial reply will not be considered for review, nor will the review clock be reactivated until all deficiencies have been addressed. The response to this

letter will be considered a MAJOR amendment and should be so designated in your cover letter. If you have substantial disagreement with our reasons for not approving this application, you may request an opportunity for a hearing.

Sincerely yours,

4/

8/1/94

Director
Division of Chemistry II
Office of Generic Drugs
Center for Drug Evaluation and Research

Enclosure: Labeling Guidance

APPEARS THIS WAY

King Pharmaceuticals, Inc. Attention: Norman T. Miller 501 Fifth Street Bristol, TN 37620

Dear Sir:

We acknowledge receipt of your communication dated February 17, 1994, submitted as required by the provisions of Regulation 21 CFR 314.72(a) and Section 505(k) of the Federal Food, Drug and Cosmetic Act for Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/500 mg and 7.5 mg/750 mg.

Your letter details the transfer of ownership of the ANDA from RSR Laboratories, Inc. to King Pharmaceuticals, Inc.

Pursuant to 21 CFR 314.72(b), the new owner shall advise FDA about any change in the conditions of the approved application.

The material submitted is being retained as part of your application.

Sincerely yours,

Robert W. Pollock

Director

Division of Labeling and Program Support

Office of Generic Drugs

Center for Drug Evaluation and Research

cc: ANDA 40-084

Division File HFD-600/Reading File

Field Copy

Endorsements: HFD-615/Gordon Johnston, Chief date/_ HFD-615/PRickman, CSO/date 2/28/94

HFD-615/WRussell, CSO WP File\russell\40-084 F/T by bcw/2-28-94transfer of ownership

King Pharmaceuticals, Inc. 501 Fifth Street Bristol, Tennessee 37620



1-800-336-7783 1-615-989-6200 Fax 1-615-989-4232



February 22, 1994

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- GENERIC DRUGS

VIA FEDERAL EXPRESS

C. Greg Guyer, Ph.D.
Director
Division of Chemistry II
Office of Generic Drugs
Center for Drug Evaluation and Research
Food and Drug Administration
Metro Park North II
7500 Standish Place, Room 150
Rockville, Maryland 20855

NONG MILLEUM N-AC DRAFT LABELING

Re: MAJOR AMENDMENT - ANDA #40-084; Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5mg/500mg and 7.5mg/750mg

Dear Dr. Guyer:

On April 27, 1993, the original applicant, RSR Laboratories, Inc., Bristol, Tennessee 37620, submitted the above referenced abbreviated new drug application. By your letter dated August 17, 1993, this applicant was notified that the application was deficient and, therefore, not approvable under Section 505 of the Act. Thereafter on December 31, 1993, RSR Laboratories, Inc. sold all of its assets related to its pharmaceutical business including the facility and equipment in which the referenced products are to be manufactured, and the subject application (ANDA #40-084), to a company which is now doing business as King Pharmaceuticals, Inc. ("KPI") in the same facility as the original applicant. A separate notification of the "change in ownership" of ANDA #40-084 has been filed in accordance with 21 CFR 314.72.

C. Greg Guyer, Ph.D. February 22, 1994
Page 2

Turning to the matters addressed in your letter, please be advised that pursuant to 21 CFR 314.60, the new owner, King Pharmaceuticals, Inc., is submitting herewith in duplicate, a Major Amendment intended to remove all deficiencies cited in your aforementioned letter. The first two volumes of this amendment (labeled by the applicant as "Volume 1 - Chemistry" and "Volume 2 - Labeling"), includes information which responds in point-by-point fashion to the matters you have raised. In other words, each deficiency is addressed in the same order it appears in your August 17, 1993 letter, and is identified using your numbering sequence.

The remaining nine (9) volumes (labeled by the applicant as "Volume 3" through "Volume 11") contain data which validate the analytical method used for the release of the finished products, and for the stability program related to the products covered by this application. In this regard, it is important to note that the method described in this portion of the amendment is, in fact, a modification of the method appearing in Supplement 7 of USP XXII and, is not the method referred to in Item A.5.d. of your letter, which method was later published in Supplement 8 of USP XXII.

As explained at page 0137 of this submission, Dr. V. Scrinavasan of the USP has informed laboratory personnel in the employ of the applicant that numerous firms have had no success with the method presented in the 8th Supplement. Having been advised of the excellent results obtained with the applicant's modified method, Dr. Scrinavasan suggested a submission of this method to the USP for consideration as the official method, and also recommended a concurrent filing of the information with CDER. The USP submission was made on November 17, 1993.

Since that time, the applicant has been informed by Dr. Scrinavasan that another company has filed a modification of the Supplement 8 method for consideration as the official method. Upon being so advised, the applicant conducted a comparative

C. Greg Guyer, Ph.D. February 22, 1994
Page 3

evaluation of the two modified methods. As shown in the report appended to this letter (Attachment 1), applicant's modified Supplement 7 method, which has been fully validated for both the 5mg/500mg and 7.5mg/750mg tablet potencies, is less time consuming and yields more accurate results than the other modified method.

Finally, it should be noted that following the receipt of your letter, applicant's facility was inspected by the Nashville District of the FDA in connection with this application. As evidenced by the letter provided as Attachment 2, the Nashville District has recommended approval of the subject application. Since, in the applicant's view, the information herewith submitted is sufficient to remove all deficiencies in ANDA #40-084, the applicant respectfully requests your timely concurrence with this recommendation. Please note also that once this application is approved,

Will be distributed by KPI's sister company, Lotus Biochemical Corporation, Radford, Virginia 24143.

Should you have any questions regarding this amendment, please contact the undersigned at the above listed address or by calling (615) 989-6284.

Yours sincerely,

KING PHARMACEUTICALS, INC.

John M. Gregory

Chief Executive Officer

JMG:bhh
Attachments

King Pharmaceuticals, Inc. 501 Fifth Street Bristol, Tennessee 37620



1-615-989-6200 Fax 1-615-989-4232

February 17, 1994

NEW CORRES

Roger Williams, M.D., Director Office of Generic Drugs Center for Drug Evaluation & Research Food and Drug Administration Metro Park North II 7500 Standish Place, Room 150 Rockville, MD 20855

Re: Change of Ownership - ANDA No. 40-084

Dear Dr. Williams:

This letter is to notify your office of a change in ownership of the referenced ANDA drug product which cover two (2) dosage strengths of tablets. The drug product and the two strengths are listed below.

Hydrocodone Bitartrate and Acetaminophen, USP, 5 mg/500mg

Hydrocodone Bitartrate and Acetaminophen, USP, 7.5mg/750mg

The ownership change involves the transfer of the referenced ANDA product from the former owner, RSR Laboratories, Inc. 501 Fifth Street, Bristol, Tennessee 37620, to the new owner King Pharmaceuticals, Inc., 501 Fifth Street, Bristol, Tennessee 37620.

This transfer is a result of a buyout of RSR Laboratories, Inc., by King Pharmaceuticals, Inc., effective December 31, 1993.

Please find enclosed with this letter, FDA form 356h (Application to Market A New Drug For Human Use), signed by Mr. John M. Gregory, CEO of King Pharmaceuticals, Inc.

Also enclosed is a Transfer Agreement signed by Mr. Gregory and Mr. Jack Sitgreaves, President of RSR Laboratories, Inc., which outlines the terms of the transfer of two (2) ANDA products, one of which is the Hydrocodone Bitartrate and Acetaminophen product. This agreement also describes the commitments promised by King Pharmaceuticals, Inc., as described in Section 314.72.

Sincerely,

Sincerely,

Morman T. Miller

Norman T. Miller

Director, Regulatory AGENERIC DRUGS If there are any questions or if clarification is needed, please contact me directly at (615) 989-6253.

NTM:ms **Enclosures**



Forward T. Gross)
Bio (J. Gross)
In recommendation

ROBINSON • SITGREAVES • ROBINSON

August 31, 1993

BIOAVAILABILITY,

VIA AIRBORNE EXPRESS

Dr. Jason Gross
Division of Chemistry II
Office of Generic Drugs
Center for Drug Evaluation and Research
FOOD AND DRUG ADMINISTRATION
Metro Park North II
7500 Standish Place, Room 128
Rockville, Maryland 20855

NEW CORRESP,

RE: Minor Amendment to ANDA 40-084 for Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5mg/500mg (_______, and 7.5mg/750mg / _______,

Dear Dr. Gross:

As instructed and pursuant to 21 CFR 314.60, we are submitting herewith, duplicate copies of information previously sent to you by fax machine. This information is in the form of graphs and tables and reflects the results of studies in which the dissolution rates of the above-referenced products, Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5mg/500mg and 7.5mg/750mg were compared with those of the marketed products, Vicodin^M and Vicodin ES^M (Small).

Should you have any questions regarding the enclosed documents, please contact me at your earliest convenience.

Yours sincerely,

RSR LABORATORIES, INC.

Lawrence P. Olon
Senior Vice President

LPO/kl Enclosures

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VAI 2080

ROBINSON • SITGREAVES • ROBINSON

August 23, 1993

VIA AIRBORNE EXPRESS

NEW CORRESP.

C. Greg Guyer, Ph.D., Director Division of Chemistry II Office of Generic Drugs Center for Drug Evaluation and Research FOOD AND DRUG ADMINISTRATION Metro Park North II 7500 Standish Place, Room 128 Rockville, Maryland 20855

RE: ANDA 40-084

Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5mg/500mg and 7.5mg/750mg

Dear Dr. Guyer:

In reference to your "Not Approvable" letter dated August 17, 1993, and pursuant to 21 CFR 314.120, please be advised that RSR Laboratories, Inc. intends to amend the above-referenced application to remove all deficiencies cited.

Yours sincerely,

RSR LABORATORIES, INC.

Lawrence P. Olon Senior Vice President

LPO/k1

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GENERIC URUGS

RSR Laboratories, Inc. Attention: Lawrence P. Olon 501 Fifth Street Bristol, TN 37620

Dear Sir:

This is in reference to your abbreviated new drug application dated April 27, 1993, submitted pursuant to Section 505(j) of the Food, Drug, and Cosmetic Act, for Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/500 mg and 7.5 mg/750 mg

The application is deficient and, therefore, not approvable under Section 505 of the Act for the following reasons:

- A. Chemistry Deficiencies
 - 1. Regarding the composition statement: Please revise and resubmit the
 - 2. Regarding the controls for the



Redacted _

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pages of trade

secret and /or

confidential

commercial

information

- analytical method that was used for product release and stability testing. Also submit data to show that the method is stability indicating.
- d. Please submit system suitability data for the USP method. It should be noted that the USP assay method has been revised in Supplement 8. Since this is the official method, you should evaluate the official method and submit validation data for the same. Also COAs using compendial methods should be submitted. If you wish to use the compendial method for stability testing, then the USP method should also be shown to be stability indicating.
- 6. Regarding the stability studies:
 - a. Please include in the stability protocol tests for degradation products and also specifications for all test parameters. Test methods should be specified.
 - b. Please demonstrate that the assay method is stability indicating.
 - c. Please include the following in the stability report: product description, formulation, drug substance sources and resin used in bottle manufacture. Actual test dates should be recorded. Tests for degradation products should be included and available data should be submitted. Test methods should be specified. Please revise and resubmit.
- 7. Regarding control numbers: The procedure given in DMF does not explain how the test batch number was derived. Please explain.
- B. Labeling Deficiencies (DRAFT)

Container: (100's)

1. Include the established name directly below the proprietary name:

Hydrocodone* Bitartrate and Acetaminophen Tablets USP

*Warning: May be habit forming.

[Note: We encourage the inclusion of "USP"]

- We would encourage a prominent expression of strength immediately beneath the established name.
 - "5 mg/500 mg" or "7.5 mg/750 mg"
- 3. 7.5 mg/750 mg "Usual Dosage" rather than "____
- 4. Delete 'before your storage recommendations.
- 5. Your controlled substance symbol for your 5 mg/500 mg product obliterates the print on your label. In addition, your symbol on your 7.5 mg/750 mg labels is barely discernable. Please revise accordingly.

Insert:

- 1. General Comments
 - a. We note the quality of submission is very poor and difficult to read. Please improve upon the quality. We defer final review and comment until such time.
 - b. The established name should be used at least once in the running text in association with the proprietary name [refer to 21 CFR 201.10(g)(1) for guidance].
- 2. 5 mg/500 mg
 - a. Replace
 with "hydrocodone bitartrate and acetaminophen tablets" throughout the text of the insert.
 - b. Title Revise the established name to read: Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/500 mg

[Note: We encourage the inclusion of the strength]

- c. DESCRIPTION
 - i) Paragraph 1 Revise to read:
 Each tablet for oral administration
 contains: In addition, each tablet

contains the following inactive ingredients ...

(Note: Please include the botanical source of the starch)

- ii) Paragraph 2, line 4 "α" rather than '-
- iii) Paragraph 3, line 3 ... odorless, crystalline ...
 (include the comma)
- iv) "Its structural formula is..."
- d. PRECAUTIONS "Pregnancy" rather than
- e. DRUG ABUSE AND DEPENDENCE
 - i) "Controlled Substances Act" (plural)
 - ii) Paragraph 1 should be split into two paragraphs. The new paragraph begins with, "Psychic dependence, physical ..."
- f. HOW SUPPLIED
 - i) Revise to read (Hydrocodone* Bitartrate and Acetaminophen Tablets USP) (*Warning: May be habit forming), 5 mg/500 mg is available as ...
 - ii) We encourage you to include the dispensing recommendations.
- 3. 7.5 mg/750 mg
 - a. Title Include the established name and expression of strength:

Hydrocodone Bitartrate and Acetaminophen Tablets USP, 7.5 mg/750 mg

- b. DESCRIPTION
 - i) Refer to comments 2c.(ii), and 2c.(iii) and 2c.(iv) above.

ii) Paragraph 1, sentence 1 - Revise to read:

Each Tablet (Hydrocodone Bitartrate and Acetaminophen Tablets USP), for oral administration, contains... In addition, each tablet contains the following inactive ingredients ...

(Note: Please include the botanical source of the starch and "1" after "FD&C Blue No.")

- c. WARNINGS Delete the first paragraph. This information does not pertain to your product.
- d. PRECAUTIONS, Pregnancy
 - i) "Pregnancy" rather than
 - ii) Paragraph 2, line 9 "There" (capital "T")
- e. ADVERSE REACTIONS, paragraph 1, line 5 ...these adverse reactions ...
- f. DRUG ABUSE AND DEPENDENCE "Controlled Substances Act" (plural)
- q. OVERDOSAGE
 - i) Paragraph 4, line 2 "syrup of ipecac"
 - ii) Paragraph 5, line 3 "overdose"
 (spelling)
 - iii) Paragraph 6, line 1 "overdose"
 (spelling)
- h. HOW SUPPLIED
 - i) Include the established name and proprietary names as follows:

and Acetaminophen Tablets USP) (*Warning: May be habit forming), 7.5 mg/750 mg is available as...

ii) We would encourage the inclusion of the "CAUTION: Federal law..." statement.

We request you revise your labels and labeling, then prepare and submit twelve final printed labels and labeling (or draft, if you prefer). Should further information become available relating to the safety and efficacy of this product, you may be asked to further revise your labeling prior to approval.

In addition to these deficiencies, please note and acknowledge the following in your response:

Your request for waiver is being evaluated by our Division of Bio-equivalence and the deficiencies will be notified in a separate letter.

The file on this application is now closed. You are required to take an action described under 21 CFR 314.120 which will either amend or withdraw the application. Your amendment should respond to all the deficiencies listed. A partial reply will not be considered for review, nor will the review clock be reactivated until all deficiencies have been addressed. The response to this letter will be considered a MAJOR amendment and should be so designated in your cover letter. If you have substantial disagreement with our reasons for not approving this application, you may request an opportunity for a hearing.

Sincerely yours,

15/ 44, 8/16/93

C. Greg Guyer, Ph.D. Director
Division of Chemistry II
Office of Generic Drugs
Center for Drug Evaluation and Research

RSR Laboratories, Inc. Attention: Lawrence P. Olon 501 Fifth Street Bristol, TN 37620

MAY 1 9 1003

Dear Sir:

We acknowledge the receipt of your abbreviated new drug application submitted pursuant to Section 505(j) of the Federal Food, Drug and Cosmetic Act for the following:

NAME OF DRUG: Hydrocodone Bitartrate and Acetaminophen

Tablets USP, 7.5 mg/750 mg, 5 mg/500 mg

DATE OF APPLICATION: April 27, 1993

DATE OF RECEIPT: April 28, 1993

We will correspond with you further after we have had the opportunity to review the application.

Please identify any communications concerning this application with the ANDA number shown above.

Sincerely yours,

Roger L. Williams, M.D.

Director

Office of Generic Drugs

Center for Drug Evaluation and Research

1f2

cc: ANDA #40-084

DUP/Division File HFC-130/JAllen HFD-637/JSimmons HFD-632/MBennett HFD-600/Reading File

R/D initialed by

F/T by B:/40084ack.ltr hrw 5-5-93

Acknowledgement Letter!

505(5)(22(1) information is acceptable

ROBINSON • SITGREAVES • ROBINSON

April 27, 1993

Roger Williams, M.D. Director Office of Generic Drugs Center for Drug Evaluation and Research Food and Drug Administration Metro Park North II 7500 Standish Place, Room 150 Rockville, Maryland 20855

Abbreviated New Drug Application for / Tablets (Hydrocodone Bitartrate, USP, 5mg and Acetaminophen, USP, 500mg) and Tablets (Hydrocodone Bitartrate, USP, 7.5mg and Acetaminophen, USP, 750mg)

Dear Dr. Williams:

RSR Laboratories, Inc., 501 Fifth Street, Bristol, Tennessee 37620, is submitting herewith an Abbreviated New Drug Application for the above referenced prescription drug products. This application, which consists of archival and review copies of five (5) volumes each, as well as three (3) separate copies of the Methods Validation data, is submitted in accordance with 21 U.S.C. §355(j) and the corresponding regulations of 21 CFR 314; and is based on the approved drugs, Anexsia® 5/500 Tablets [Beecham] and Vicodin ES® Tablets [Knoll], listed in the 1993 Approved Drug Products With Therapeutic Equivalence Evaluations [the "Orange Book"], 13th Edition, page 3-4.

Inquiries concerning this application may be directed to my attention at the above listed address or by calling (615) 989-4250.

We respectfully request your timely review of this submission.

Yours sincerely,

RSR LABORATORIES, INC.

Lawrence P. Olon

Senior Vice President

GENERIC DRUGS

LPO:r