

**CENTER FOR DRUG
EVALUATION AND
RESEARCH**

Approval Package for:

APPLICATION NUMBER:

**88-058/S-001;S-002;S-003;
S-004;S-005;S-006;S-007;S-008;
S-009;S-011;S-012;S-013;S-014;
S-015;S-016;S-017;S-018;S-019;
S-020;S-021;S-022;S-023;S-024**

Trade Name: Vicodin Tablets

Generic Name: hydrocodone bitartrate/acetaminophen
5mg/500mg

Sponsor: Knoll Pharmaceutical Company

CENTER FOR DRUG EVALUATION AND RESEARCH

**APPLICATION NUMBER:
88-058/S-001;S-002;S-003;
S-004;S-005;S-006;S-007;S-008;
S-009;S-011;S-012;S-013;S-014;
S-015;S-016;S-017;S-018;S-019;
S-020;S-021;S-022;S-023;S-024**

CONTENTS

Reviews / Information Included in this ANDA Review.

Approval Letter	X
Tentative Approval Letter(s)	
Final Printed Labeling(s)	X
CSO Labeling Review(s)	
Chemistry Review(s)	X
Microbiology Review(s)	
Bioequivalence Review(s)	
Administrative Document(s)	X
Correspondence	X

**CENTER FOR DRUG
EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

**88-058/S-001;S-002;S-003;
S-004;S-005;S-006;S-007;S-008;
S-009;S-011;S-012;S-013;S-014;
S-015;S-016;S-017;S-018;S-019;
S-020;S-021;S-022;S-023;S-024**

APPROVAL LETTERS

NOV 26 1984

NDA 88-058/S-001, S-002, S-003

Knoll Pharmaceutical Company
Attention: Mr. Agamemnon C. Hanzas
30 North Jefferson Road
Whippany, New Jersey 07981

Gentlemen:

Reference is made to your supplements dated July 29, 1984 and January 30, 1984 regarding your abbreviated new drug application submitted pursuant to Section 505(b) of the Federal Food, Drug, and Cosmetic Act for Vicodin (hydrocodone bitartrate 5 mg and acetaminophen 500 mg) Tablets.

Reference is also made to your communication dated July 17, 1984.

The supplemental applications provide for:

- S-001 - a _____ procedure
- S-002 - two year expiration date for the _____ tablets.
- S-003 - a major control procedure change for the dosage form.

We have completed the review of these supplemental applications and they are approved. Our letter of January 7, 1983 detailed the conditions relating to the approval of this application.

The material submitted is being retained in our files.

Sincerely yours,

ISI

Mervin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics

11/26/84

cc:

NWK-DD
HFN-230
HFN-83

JLMeyer/CChand/mk/11/20/84
7095A

ISI

11-21-84

ISI

11/23/84

APPROVAL

NOV 26 1984

NDA 88-058/S-004, S-005

Knoll Pharmaceutical Company
Attention: Mr. Agamemnon C. Hanzas
30 North Jefferson Road
Whippany, New Jersey 07981

Gentlemen:

Reference is made to your supplements dated October 9, 1984 regarding your abbreviated new drug application submitted pursuant to Section 505(b) of the Federal Food, Drug, and Cosmetic Act for Vicodin (hydrocodone bitartrate 5 mg and acetaminophen 500 mg) Tablets.

Reference is also made to your communication dated October 23, 1984.

The supplemental applications provide for:

- S-004 - labeling revision for the new tablet design shape.
- S-005 - manufacturing revision for the new tablet shape.

We have completed the review of these supplemental applications and they are approved. Our letter of January 7, 1983 detailed the conditions relating to the approval of this application.

The material submitted is being retained in our files.

Sincerely yours,

ISI
11/26/84
Markin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics

cc:
NWK-DO
HFN-230
HFN-83
TPoux/JLMeyer/CChang/mk/11/20/84
7095A

APPROVAL

ISI 11/23/84

ANDA 88-058/S-006, S-007

JUN 24 1986

Knoll Pharmaceutical Company
Attention: Robert W. Ashworth
30 North Jefferson Road
Whippany, NJ 07981

Dear Mr. Ashworth:

Reference is made to your supplemental new drug applications submitted pursuant to Section 314.70 of the Regulations, dated December 16, 1985, regarding your abbreviated new drug application for Vicodin Tablets (5 mg Hydrocodone Bitartrate/500 mg Acetaminophen).

Reference is also made to your communication dated April 21, 1986.

The supplemental applications provide for (1) S-006: The packaging of Vicodin Tablets in 160cc white plastic bottles with _____ metal caps, and (2) S-007: The packaging of Vicodin Tablets in 625cc white plastic bottles with _____ metal caps.

We have completed the review of these supplemental applications and they are approved. Our letter of January 7, 1983 detailed the conditions relating to the approval of this abbreviated application.

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

MM Sincerely yours, *MM*

ISI *6/24/86*
Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics

cc:
HFN-237
CChang/W [unclear] /tr/6/20/
0840S
Approval Multiple Supplements

ISI 23-86

ANDA 88-058/S-008, S-009, S-011

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, NJ 07981

MAY 11 1987

Dear Dr. Ashworth:

Reference is made to your supplemental new drug applications submitted pursuant to Section 314.70 of the Regulations, dated January 21, and November 18, 1986, regarding your abbreviated new drug application for VIGODIN (Hydrocodone Bitartrate and Acetaminophen) Tablets, 5 mg/500 mg.

Reference is also made to your correspondence dated March 23, 1987.

The supplemental applications provide for (1) S-008; Packaging of Vicodin tablets in blister packages; (2) S-009; Expiration dating for the new package; and (3) S-011; Labeling for unit-dose packaging.

We have completed the review of these supplemental applications and they are approved. Our letter of January 7, 1983 detailed the conditions relating to the approval of this abbreviated application.

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

Sincerely yours.

MS

for

S-1187

Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics

cc: MFN-237
YMille/CChang/M. Arhane/tr/5/5/87
1492S
Approval Multiple Supplements

MS
5-8-87

Mille
5/5/87

MS/YS/MS

ANDA 88-058/S-012

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, NJ 07981

MAY 11 1987

Dear Sir:

Reference is made to your supplemental new drug application submitted pursuant to Section 314.70 of the Regulations, dated February 17, 1987, regarding your abbreviated new drug application for VICODIN (Hydrocodone Bitartrate and Acetaminophen) Tablets, 5 mg/500 mg.

The supplemental application provides for revised unit dose strip carton of 25, unit dose carton for 4 x 25, dump dispenser and container labels (100s and 500s) and package insert labeling.

We have completed the review of this supplemental application and it is approved. Our letter of January 7, 1983 detailed the conditions relating to the approval of this abbreviated application.

However, at the time of next printing or within 90 days whichever comes first, revise the package insert labeling so it is in accord with our current labeling guideline for this product. The one exception to the guideline is the second paragraph in the DOSAGE AND ADMINISTRATION section which should be revised to read:

The usual adult dosage is one or two tablets every four to six hours as needed for pain. The total 24 hour dose should not exceed 8 tablets.

If you wish to include the dose for naloxone in the text of the insert it must be revised to reflect the dose currently reflected in the labeling of Narcan. When available submit draft copy for our review and comment. We are aware that further revision of the DOSAGE AND ADMINISTRATION may occur shortly and you should not prepare final printed labeling until requested to do so.

Furthermore, you must use the current phrasing for the warning Agents; Labeling in Drugs for Human Use; Warning Statement; Federal Register, Vol. 51, No. 234; December 5, 1986; pages 43900-43904]. The warning should be the first paragraph in the WARNINGS section.



The material submitted is being retained in our files.

Sincerely yours,

MSD

For

5-1687

Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics

MSD
5/17/87

MSD
5/17/87

cc:
HFN-238
KJohnson/Wille/t 5/15/87
1501S
Approval
Pages 1-2

MSD
5/18/87

APPEARS THIS WAY
ON ORIGINAL

ANDA 88-058/S-013, S-014, S-015

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, NJ 07981

FEB 29 1988

Dear Dr. Ashworth:

Reference is made to your supplemental new drug applications submitted pursuant to Section 314.70 of the Regulations, dated May 8, 1987, regarding your abbreviated new drug application for VICODIN (Hydrocodone Bitartrate and Acetaminophen) Tablets, 5 mg/500 mg.

Reference is also made to your correspondence dated December 4, 1987.

The supplemental applications provide for 1) S-013; Packaging of Vicodin tablets in a 128 fluid ounce plastic bottle (3000 tablets) with a cap, (2) S-014; 4 month expiration dating for the new package, and (3) S-015; labeling for the new package.

We have completed the review of these supplemental applications and they are approved. However, we refer you to our letter dated January 29, 1988 in response to supplement 16 for comments concerning the need for further revision of the package insert labeling. Our letter of January 7, 1983 detailed the conditions relating to the approval of this abbreviated application.

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

Sincerely yours

1
USP
LCR
2-29-88
Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drug Evaluation and Research

12/2/88
cc:
HFN-237
YMille/CChang/WMa.nane/trc/2/25/88
2134m page 18
Approval Multiple Suppl.

ANDA: 88-058/S-016

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, NJ 07981

JUL 1 1988

Dear Dr. Ashworth:

Reference is made to your supplemental new drug application submitted pursuant to Section 314.70 of the Regulations, dated June 10, 1987 regarding your abbreviated new drug application for VICODIN (Hydrocodone Bitartrate and Acetaminophen) Tablets, 5 mg/500 mg. *ar*

Reference is also made to your communications dated August 5, 1987; September 17, 1987; May 13, 1987 and June 7, 1988 amending this supplement.

The supplemental application provides for revised package insert labeling to reflect a major revision of the text.

We have completed the review of this supplemental application and it is approved. Our letter of January 7, 1983 detailed the conditions relating to the approval of this abbreviated application.

We acknowledge your commitment to utilize insert #5828 until you introduce the 3000 tablet package size. At that time you will revise the HOW SUPPLIED section of the insert and notify the Agency of the change.

The material submitted is being retained in our files.

Sincerely yours,

ISI
Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drug Evaluation and Research

1/88 *7-1-88*

ISI
cc: HFD-238
HFD-83
YMillie/TPoux/je/6-28-88
approval
7886A/pg 3

ISI
6/30/88
6/30/88

ANDA 88-058/S-017

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, NJ 07981

JAN 19 1988

Dear Dr. Ashworth:

Reference is made to your supplemental new drug application submitted pursuant to Section 314.70 of the Regulations, dated August 21, 1987, regarding your abbreviated new drug application for VICODIN (Hydrocodone Bitartrate and Acetaminophen) Tablets, 5 mg/500 mg.

The supplemental application provides for the manufacture of Vicodin tablets in an expanded tablet production facility directly adjoining your current operations at the Whippany, New Jersey site.

We have completed the review of this supplemental application and it is approved. Our letter of January 7, 1983 detailed the conditions relating to the approval of this abbreviated application.

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

Sincerely yours,

17 *1/19/88*
ISI *1/19/88*
Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drug Evaluation and Research

cc:
HFN-237
CChang/WMa nane/trc/1/14/88
2089m page 14
Approval One Supplement

ISI 1/14/88
ISI 1/14/88

ANDA 88-058/S-018, S-019

AUG 20 1992

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, NJ 07981

Dear Sir:

Reference is made to your supplemental new drug applications dated February 1, 1989 submitted pursuant to Section 314.70 of the Regulations, regarding your abbreviated new drug application for Vicodin (Hydrocodone Bitartrate and Acetaminophen, 5 mg/500 mg) Tablets.

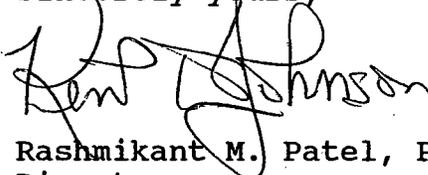
Reference is also made to your communications dated June 7, 1991 and ~~July 8,~~ ^{August 10} 1992 amending these supplements.

The supplemental applications provide for revised package insert labeling (S-018) and the use of _____ without added _____ in the manufacturing process (S-019).

We have completed the review of these supplemental applications, and they are approved. Our letter of January 7, 1983 detailed the conditions relating to the approval of this abbreviated application.

The material submitted is being retained in our files.

Sincerely yours,

Handwritten signature of Rashmikant M. Patel in black ink, with the initials 'FR' written to the right.

Rashmikant M. Patel, Ph.D.
Director
Division of Chemistry I
Office of Generic Drugs
Center for Drug Evaluation and Research

ANDA 88-058/S-020

SEP 10 1992

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, New Jersey 07981

Dear Sir:

Reference is made to your supplemental new drug application dated August 18, 1992, submitted pursuant to Section 314.70(c) (Special Supplement-Changes Being Effected) of the Regulations, regarding your abbreviated new drug application for VICODIN (Hydrocodone Bitartrate and Acetaminophen Tablets), 5 mg/500 mg.

The supplemental application provides for revised unit-dose blisters.

We have completed the review of this supplemental application and it is approved. Our letter of January 7, 1983, detailed the conditions relating to the approval of this abbreviated application.

The material submitted is being retained in our files.

Sincerely yours,

Roger D. Williams /pr
Roger D. Williams, M.D.

Director
Office of Generic Drugs
Center for Drug Evaluation and Research

9-10-92

cc;
HFD-638
HFD-600
HFC-130/JAllen
KRoberts/JPhillips
hab 9/8/92
88058S.020
approval HFD-82
FINAL

KRoberts
29-92

Jerry Phillips 9/10/92

ANDA 88-058/S-021

Knoll Pharmaceutical Company
Attention: Robert W. Ashworth, Ph.D.
3000 Continental Drive-North
Mount Olive, NJ 07828-1234

FEB 15 1999

Dear Sir:

This is in reference to your supplemental new drug application dated August 6, 1999, submitted under 505(j) of Federal Food, Drug and Cosmetic Act, regarding your abbreviated new drug application for Vicodin®.

The supplemental application provides for the addition of a testing facility located at 140 Hanover Avenue, Cedar Knolls, NJ to perform routine stability testing and to serve as an alternate release testing site.

We have completed the review of this supplemental application and it is approved.

We remind you that you must comply with the requirements for an approved abbreviated new drug application described in 21 CFR 314.80-81.

The material submitted is being retained in our files.

Sincerely yours,




Florence S. Fang
Director
Division of Chemistry II
Office of Generic Drugs
Center for Drug Evaluation and Research

ANDA 88-058/S-022

Knoll Pharmaceutical Company
Attention: Robert W. Ashworth, Ph.D.
3000 Continental Drive-North
Mount Olive, NJ 07828-1234

MAR 16 2000

Dear Sir:

This is in reference to your supplemental new drug application dated September 10, 1999, submitted under 505(j) of Federal Food, Drug and Cosmetic Act, regarding your abbreviated new drug application for Vicodin®.

The supplemental application provides for a site change for blister-packaging operations from ~~_____~~ to Knoll Pharmaceutical located at 30 North Jefferson Road, Whippany, New Jersey.

We have completed the review of this supplemental application and it is approved.

We remind you that you must comply with the requirements for an approved abbreviated new drug application described in 21 CFR 314.80-81.

The material submitted is being retained in our files.

Sincerely yours,

for *FS* *3/16/2000*
Florence S. Fang
Director
Division of Chemistry II
Office of Generic Drugs
Center for Drug Evaluation and Research

ANDA 88-058/S-023

Knoll Pharmaceutical Company
Attention: Robert W. Ashworth, Ph.D.
3000 Continental Drive-North
Mount Olive, NJ 07828-1234

JUN 27 2000

Dear Sir:

This is in reference to your supplemental new drug application dated March 6, 2000, submitted under 505(j) of Federal Food, Drug and Cosmetic Act, regarding your abbreviated new drug application for Vicodin®.

The supplemental application provides for an alternate

We have completed the review of this supplemental application and it is approved. Please note, however, that you are requested to file a copy of the executed batch record for the first production lot and the final product certificate of analysis in the annual report. We acknowledge your commitment to place the first three production batches on stability.

We remind you that you must comply with the requirements for an approved abbreviated new drug application described in 21 CFR 314.80-81.

The material submitted is being retained in our files.

Sincerely yours,

JOB
Florence S. Fang
Director
Division of Chemistry II
Office of Generic Drugs
Center for Drug Evaluation and Research

151

6/27/00

ANDA 88-058/S-024

Knoll Pharmaceutical Company
Attention: Deborah A. Panei
3000 Continental Drive North
Mt. Olive NJ 07828

APR 2 2001

Dear Madam:

This is in reference to your supplemental new drug application dated October 12, 2000, submitted under 505(j) of Federal Food, Drug and Cosmetic Act, regarding your abbreviated new drug application for Vicodin® (hydrocodone bitartrate and acetaminophen tablets USP, 5 mg/500 mg).

This supplemental application, submitted as "Changes Being Effected in 30 days", provides for the following change:

A new analytical monograph which combines previously used procedures for release and stability testing into a single procedure. In addition, the _____ test has been deleted.

We have completed the review of this supplemental application and it is approved.

We remind you that you must comply with the requirements for an approved abbreviated new drug application described in 21 CFR 314.80-81.

The material submitted is being retained in our files.

Sincerely yours,

FS

4/2/01

fs
Florence S. Fang
Director
Division of Chemistry II
Office of Generic Drugs
Center for Drug Evaluation and Research

**CENTER FOR DRUG
EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

**88-058/S-001;S-002;S-003;
S-004;S-005;S-006;S-007;
S-008; S-009;S-011;S-012;
S-013;S-014;S-015;S-016;
S-017;S-018;S-019;S-020;
S-021;S-022;S-023;S-024**

FINAL PRINTED LABELING(S)

5-018
5-019

5830



APPROVAL

8/20/1992

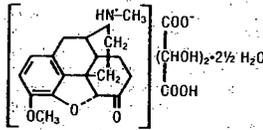
DESCRIPTION:

Each VICODIN® tablet contains:
Hydrocodone Bitartrate 5 mg
(WARNING: May be habit forming.)

Acetaminophen 500 mg
Other ingredients include colloidal silicon dioxide, corn starch, croscarmellose, sodium Type A, dibasic calcium phosphate, magnesium stearate, microcrystalline cellulose, povidone, and stearic acid.

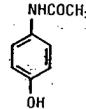
Hydrocodone bitartrate is an opioid analgesic and antitussive and occurs as fine, white crystals or as a crystalline powder. It is affected by light. The chemical name is: 4,5-epoxy-3-methoxy-17-methylmorphinan-6-one tartrate (1:1) hydrate (2:5).

Its structure is as follows:



$C_{18}H_{21}NO_3 \cdot C_4H_6O_6 \cdot 2\frac{1}{2}H_2O$ M.W. 494.50

Acetaminophen, 4'-hydroxyacetanilide, is a non-opiate, non-salicylate analgesic and antipyretic which occurs as a white, odorless crystalline powder possessing a slightly bitter taste. Its structure is as follows:



$C_8H_9NO_2$ M.W. 151.16

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.

Radioimmunoassay techniques have recently been developed for the analysis of hydrocodone in human plasma. After a 10 mg oral dose of hydrocodone bitartrate, a mean peak serum drug level of 23.6 ng/ml and an elimination half-life of 3.8 hours were found.

The analgesic action of acetaminophen involves peripheral and central 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. Acetaminophen is rapidly and almost completely absorbed from the gastrointestinal tract, producing maximum serum concentrations within 30 minutes to one hour. The plasma half-life in adults and children ranges from 0.90 hours to 3.25 hours with an average of approximately 2 hours. The drug distributes uniformly in most body fluids and is approximately 25% protein bound. Acetaminophen is conjugated in the liver, with less than 3% of the dose excreted unchanged in 24 hours. The primary metabolic pathway is conjugation to sulfate and glucuronide by-products. A minor oxidative pathway forms cysteine and mercapturic acid. These compounds are subsequently excreted by the kidneys into the urine.

INDICATIONS AND USAGE:

For the relief of moderate to moderately severe pain.

CONTRAINDICATIONS:

Hypersensitivity to acetaminophen or hydrocodone.

WARNINGS:

Respiratory Depression: At high doses or in sensitive patients, hydrocodone may produce dose-related respiratory depression.

2

uniformly in most body fluids and is approximately 25% protein bound. Acetaminophen is conjugated in the liver, with less than 3% of the dose excreted unchanged in 24 hours. The primary metabolic pathway is conjugation to sulfate and glucuronide by-products. A minor oxidative pathway forms cysteine and mercapturic acid. These compounds are subsequently excreted by the kidneys into the urine.

INDICATIONS AND USAGE:

For the relief of moderate to moderately severe pain.

CONTRAINDICATIONS:

Hypersensitivity to acetaminophen or hydrocodone.

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 preexisting 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:

Special Risk Patients: As with any narcotic analgesic agent, VICODIN 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.

Information for Patients: VICODIN Tablets, like all narcotics, may impair the 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.

Cough Reflex: Hydrocodone suppresses the cough reflex; as with all narcotics, caution should be exercised when VICODIN Tablets are used postoperatively and in patients with pulmonary disease.

Drug Interactions: Patients receiving other narcotic analgesics, antipsychotics, anti-anxiety agents, or other CNS depressants (including alcohol) concomitantly with VICODIN 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.

The concurrent use of anticholinergics with hydrocodone may produce paralytic ileus.

Usage in Pregnancy:

Teratogenic Effects: Pregnancy Category C. Hydrocodone has been shown to be teratogenic in hamsters when given in doses 700 times the human dose. There are no adequate and well-controlled studies in pregnant women. VICODIN 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. Chlorpromazine 0.7 to 1.0 mg/kg q6h, and paregoric 2 to 4 drops/kg q4h, have been used to treat withdrawal symptoms in infants. The duration of therapy is 4 to 28 days, with the dosage decreased as tolerated.

Labor and Delivery: As with all narcotics, administration of VICODIN Tablets 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: It is not known whether this drug 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 VICODIN Tablets, 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 observed adverse reactions include lightheadedness, dizziness, sedation, nausea and vomiting. These effects seem to be more prominent in ambulatory than in nonambulatory patients and some of these adverse reactions may be alleviated if the patient lies down.

Other adverse reactions include:

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

Gastrointestinal System: The antiemetic phenothiazines are useful in suppressing the nausea and vomiting which may occur (see above); however, some phenothiazine derivatives seem to be antianalgesic and to increase the amount of narcotic required to produce pain relief, while other phenothiazines reduce the amount of narcotic required to produce a given level of analgesia. Prolonged administration of VICODIN Tablets may produce constipation.

Genitourinary System: Ureteral spasm, spasm of vesical sphincters and urinary retention have been reported.

Respiratory Depression: Hydrocodone bitartrate may produce dose-related respiratory depression by acting directly on the brain stem respiratory center. Hydrocodone also affects the

There is no consensus on the best method of managing withdrawal. Chlorpromazine 0.7 to 1.0 mg/kg q6h, and paregoric 2 to 4 drops/kg q4h, have been used to treat withdrawal symptoms in infants. The duration of therapy is 4 to 28 days, with the dosage decreased as tolerated.

Labor and Delivery: As with all narcotics, administration of VICODIN Tablets 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: It is not known whether this drug 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 VICODIN Tablets, 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 observed adverse reactions include lightheadedness, dizziness, sedation, nausea and vomiting. These effects seem to be more prominent in ambulatory than in nonambulatory patients and some of these adverse reactions may be alleviated if the patient lies down.

Other adverse reactions include:

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

Gastrointestinal System: The antiemetic phenothiazines are useful in suppressing the nausea and vomiting which may occur (see above); however, some phenothiazine derivatives seem to be antianalgesic and to increase the amount of narcotic required to produce pain relief, while other phenothiazines reduce the amount of narcotic required to produce a given level of analgesia. Prolonged administration of VICODIN Tablets may produce constipation.

Genitourinary System: Ureteral spasm, spasm of vesical sphincters and urinary retention have been reported.

Respiratory Depression: Hydrocodone bitartrate 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. If significant respiratory depression occurs, it may be antagonized by the use of naloxone hydrochloride. Apply other supportive measures when indicated.

DRUG ABUSE AND DEPENDENCE:

VICODIN Tablets are subject to the Federal Controlled Substance Act (Schedule C-IV).

Psychic dependence, physical dependence, and tolerance may develop upon repeated administration of narcotics; therefore, VICODIN Tablets should be prescribed and administered with caution. However, psychic dependence is unlikely to develop when VICODIN 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:

Acetaminophen:

Signs and Symptoms: In acute acetaminophen overdosage, dose-dependent, potentially fatal hepatic necrosis is the most serious adverse effect. Renal tubular necrosis, hypoglycemic coma, and thrombocytopenia may also occur.

In adults, hepatic toxicity has rarely been reported with acute overdoses of less than 10 grams and fatalities with less than 15 grams. Importantly, young children seem to be more resistant than adults to the hepatotoxic effect of an acetaminophen overdose. Despite this, the measures outlined below should be initiated in any adult or child suspected of having ingested an acetaminophen overdose.

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.

Treatment: The stomach should be emptied promptly by lavage or by induction of emesis with syrup of ipecac. Patients' estimates of the quantity of a drug ingested are notoriously unreliable. Therefore, if an acetaminophen overdose is suspected, a serum acetaminophen assay should be obtained as early as possible, but no sooner than four hours following ingestion. Liver function studies should be obtained initially and repeated at 24-hour intervals.

The antidote, N-acetylcysteine, should be administered as early as possible, preferably within 16 hours of the overdose ingestion for optimal results, but in any case, within 24 hours. Following recovery, there are no residual, structural or functional hepatic abnormalities.

Hydrocodone:

Signs and Symptoms: Serious overdose with hydrocodone is characterized by respiratory depression (a decrease in

3

APPROVAL

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.

Treatment: Primary attention should be given to the reestablishment of adequate respiratory exchange through provision of a patent airway and the institution of assisted or controlled ventilation. The narcotic antagonist naloxone is a specific antidote against respiratory depression which may result from overdosage or unusual sensitivity to narcotics, including hydrocodone. Therefore, an appropriate dose of naloxone hydrochloride (see package insert) should be administered, preferably by the intravenous route, and simultaneously with efforts at respiratory resuscitation. Since the duration of action of hydrocodone may exceed that of the antagonist, the patient should be kept under continued surveillance and repeated doses of the antagonist should be administered as needed to maintain adequate respiration.

An antagonist should not be administered in the absence of clinically significant respiratory or cardiovascular depression. Oxygen, intravenous fluids, vasopressors and other supportive measures should be employed as indicated.

Gastric emptying may be useful in removing unabsorbed drug.

DOSAGE AND ADMINISTRATION:

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

The usual adult dosage is one or two tablets every four to six hours as needed for pain. The total 24 hour dose should not exceed 8 tablets.

HOW SUPPLIED:

White, capsule shaped tablet bisected on one side and imprinted with "VICODIN" on the other side.

Bottles of 100—NDC #0044-0727-02.

Bottles of 500—NDC #0044-0727-03.

Hospital Unit Dose Package—100 tablets (4x25 tablets)—NDC #0044-0727-41.

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

Dispense in a tight, light-resistant container as defined in the USP.

A Schedule  Narcotic.

MR 1987/5809
RE-3/Vic-5830/2-9-88
Revised: February, 1988

5830

Knoll Pharmaceuticals
A Unit of BASF K&F Corporation
30 North Jefferson Road
Whippany, New Jersey 07981

BASF Group



APPROVED

NOV 26 1984

25 Tablets

NEW TABLET DESIGN
Same Formulation

NDC 0044-0727-91

vicodin[®]

See back panel for pouch opening instructions.

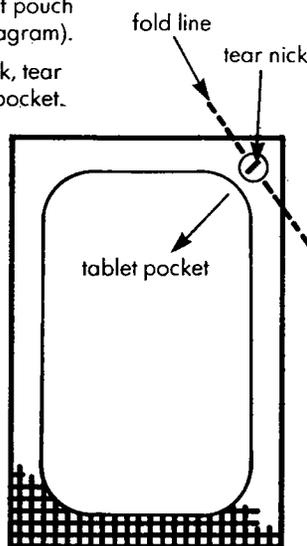
Each tablet contains
hydrocodone bitartrate 5 mg,
(Warning: May be habit forming.)
acetaminophen 500 mg.
Usual adult dose: See package insert.
Store at controlled room temperature
(59°-86° F / 15°-30° C).
Caution: Federal law prohibits
dispensing without prescription.

5721

 **KNOLL PHARMACEUTICAL COMPANY**
30 NORTH JEFFERSON AVENUE, NEW JERSEY 07981

**Directions for opening enclosed
child-resistant foil pouches:**

1. Fold back corner of pouch
at tear nick (see diagram).
2. Starting at tear nick, tear
foil toward tablet pocket.



100 TABLETS NDC 0044-0727-41

vicodin[®]

Each tablet contains: hydrocodone bitartrate 5 mg. (**Warning:** May be habit forming.) acetaminophen 500 mg.

Usual adult dose: See package insert.

Storage: 59°-86°F. 15°-30°C.

Caution: Federal law prohibits dispensing without prescription.

 **KNOLL PHARMACEUTICAL COMPANY**
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

100 TABLETS NDC 0044-0727-41

vicodin[®]

Each tablet contains: hydrocodone bitartrate 5 mg. (**Warning:** May be habit forming.) acetaminophen 500 mg.

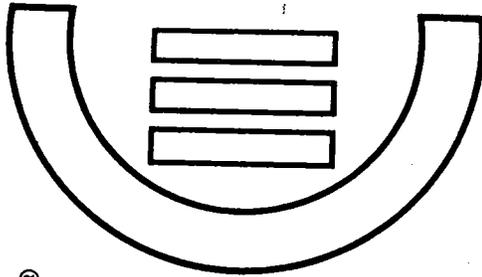
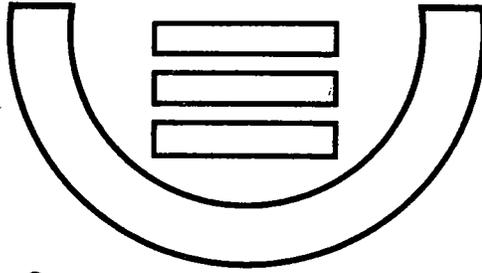
Usual adult dose: See package insert.

Storage: 59°-86°F. 15°-30°C.

Caution: Federal law prohibits dispensing without prescription.

 **KNOLL PHARMACEUTICAL COMPANY**
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

5719



Dispensing without prescription.
Caution: Federal law prohibits
storage: 59°-86°F, 15°-30°C.
Insert.
Usual adult dose: See package
insert.
cetaminophen 500 mg,
(brand name)
Warning: May be habit
forming.
Each tablet contains:
hydrocodone bitartrate 5 mg.



NEW TABLET DESIGN
Same Formulation

60 TABLETS NDC 0044-0727-41

Usual adult dose: See package insert.

Storage: 59°-86°F, 15°-30°C.

Caution: Keep out of reach of children.
This package is not child resistant.

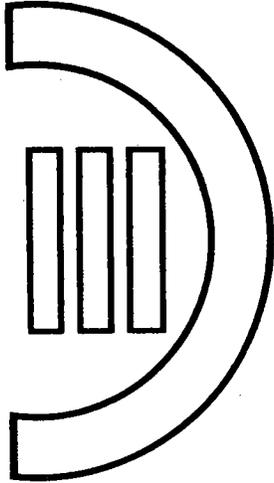
KNOLL PHARMACEUTICAL COMPANY
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

KNOLL PHARMACEUTICAL COMPANY
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

Each tablet contains: hydrocodone
bitartrate 5 mg. (Warning: May be habit
forming.) acetaminophen 500 mg.
Usual adult dose: See package insert.
Storage: 59°-86°F, 15°-30°C.
Caution: Federal law prohibits dispensing
without prescription.

vicodin[®]

100 TABLETS NDC 0044-0727-41



100 TABLETS NDC 0044-0727-41

**NEW TABLET DESIGN
Same Formulation**

vicodin[®]

Each tablet contains:
hydrocodone bitartrate 5 mg.
(Warning: May be habit
forming.)
acetaminophen 500 mg.

Usual adult dose: See package
insert.

Storage: 59°-86°F, 15°-30°C.

Caution: Federal law prohibits
dispensing without prescription.

5719
**KNOLL
PHARMACEUTICAL
COMPANY**
30 NORTH JEFFERSON ROAD,
WHIPPANY, NEW JERSEY 07981

vicodin[®]

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NOV 26 1984

The logo for Vicodin, featuring the word "vicodin" in a lowercase, sans-serif font with a registered trademark symbol (®) to its upper right. To the right of the text is a stylized graphic element consisting of three horizontal bars of varying lengths, stacked vertically, resembling a partial circle or a stylized 'C'.

Usual adult dose: See package insert.

Storage: 59°-86°F, 15°-30°C.

Caution: Keep out of reach of children.
This package is not child resistant.

KNOLL PHARMACEUTICAL COMPANY
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

NEW TABLET DESIGN
Same Formulation

vicodin® 

Usual adult dose: See package insert.

Storage: 59°-86°F, 15°-30°C.

Caution: Keep out of reach of children.
This package is not child resistant.

KNOLL PHARMACEUTICAL COMPANY
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981



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NOV 26 1984

KNOLL PHARMACEUTICAL COMPANY
WHIPPANY, N. J.

100 TABLETS **NEW TABLET DESIGN** NDC 0044-0727-02
Same Formulation

vicodin® 

Each tablet contains:
hydrocodone bitartrate 5 mg.
(Warning: May be habit forming.)
acetaminophen 500 mg.

Usual adult dose: See package insert.
Caution: Federal law prohibits dispensing without prescription.
Storage: 59°-86°F, 15°-30°C.
Dispense in tight, light-resistant container as defined in USP.

5718

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NOV 26 1994

 **KNOLL PHARMACEUTICAL COMPANY**
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

100 TABLETS **NEW TABLET DESIGN** NDC 0044-0727-02
Same Formulation

vicodin® 

Each tablet contains:
hydrocodone bitartrate 5 mg.
(Warning: May be habit forming.)
acetaminophen 500 mg.

Usual adult dose: See package insert.
Caution: Federal law prohibits dispensing without prescription.
Storage: 59°-86°F, 15°-30°C.
Dispense in tight, light-resistant container as defined in USP.

5718

APPROVED

NOV 26 1994

 **KNOLL PHARMACEUTICAL COMPANY**
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

100 TABLETS **NEW TABLET DESIGN** NDC 0044-0727-02
Same Formulation

vicodin® 

Each tablet contains:
hydrocodone bitartrate 5 mg.
(Warning: May be habit forming.)
acetaminophen 500 mg.

Usual adult dose: See package insert.
Caution: Federal law prohibits dispensing without prescription.
Storage: 59°-86°F, 15°-30°C.
Dispense in tight, light-resistant container as defined in USP.

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NOV 26 1994

 **KNOLL PHARMACEUTICAL COMPANY**
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

vicodin[®] tablets 
Hydrocodone bitartrate 5 mg (Warning: May be habit forming) and acetaminophen 500 mg

DIRECTIONS:

- 1. START WITH UNIT #25 AND WORK SEQUENTIALLY BACKWARDS TO #1.**
- 2. FOR DISPENSING: TEAR OFF BLISTER AT PERFORATIONS. TO REMOVE TABLET PRESS BLISTER SIDE OF UNIT**

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MAY 11 1987

5783B

Knoll	1	Knoll	2	Knoll	3	Knoll	4	Knoll	5
Knoll	6	Knoll	7	Knoll	8	Knoll	9	Knoll	10
Knoll	11	Knoll	12	Knoll	13	Knoll	14	Knoll	15
Knoll	16	Knoll	17	Knoll	18	Knoll	19	Knoll	20
Knoll	21	Knoll	22	Knoll	23	Knoll	24	Knoll	25

vicodin[®] tablets 
Hydrocodone bitartrate 5 mg (Warning: May be habit forming) and acetaminophen 500 mg

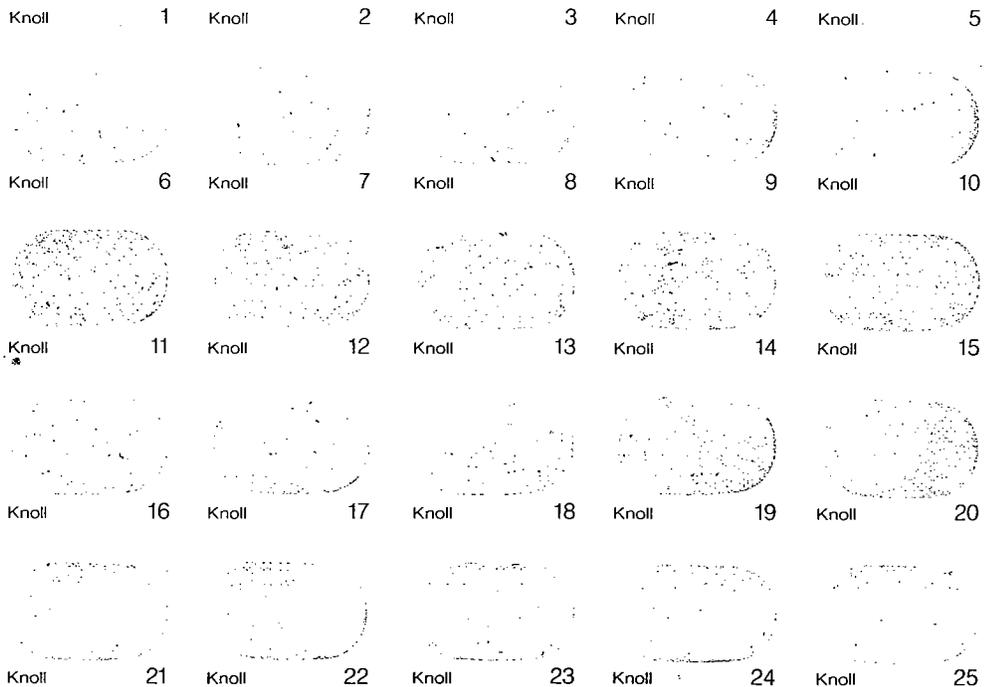
DIRECTIONS:

- 1. START WITH UNIT #25 AND WORK SEQUENTIALLY BACKWARDS TO #1.**
- 2. FOR DISPENSING: TEAR OFF BLISTER AT PERFORATIONS.
TO REMOVE TABLET PRESS BLISTER SIDE OF UNIT**

APPROVED

MAY 11 1987

5783B



HYDROCODONE BITARTRATE 5mg (WARNING: May Be Habit Forming) ACETAMINOPHEN 500 mg Vicodin [®] tablet Exp. 0000	HYDROCODONE BITARTRATE 5mg (WARNING: May Be Habit Forming) ACETAMINOPHEN 500 mg Vicodin [®] tablet Exp. 0000	HYDROCODONE BITARTRATE 5mg (WARNING: May Be Habit Forming) ACETAMINOPHEN 500 mg Vicodin [®] tablet Exp. 0000	HYDROCODONE BITARTRATE 5mg (WARNING: May Be Habit Forming) ACETAMINOPHEN 500 mg Vicodin [®] tablet Exp. 0000	HYDROCODONE BITARTRATE 5mg (WARNING: May Be Habit Forming) ACETAMINOPHEN 500 mg Vicodin [®] tablet Exp. 0000
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HYDROCODONE BITARTRATE 5mg (WARNING: May Be Habit Forming) ACETAMINOPHEN 500 mg Vicodin [®] tablet Exp. 0000	HYDROCODONE BITARTRATE 5mg (WARNING: May Be Habit Forming) ACETAMINOPHEN 500 mg Vicodin [®] tablet Exp. 0000	HYDROCODONE BITARTRATE 5mg (WARNING: May Be Habit Forming) ACETAMINOPHEN 500 mg Vicodin [®] tablet Exp. 0000	HYDROCODONE BITARTRATE 5mg (WARNING: May Be Habit Forming) ACETAMINOPHEN 500 mg Vicodin [®] tablet Exp. 0000	HYDROCODONE BITARTRATE 5mg (WARNING: May Be Habit Forming) ACETAMINOPHEN 500 mg Vicodin [®] tablet Exp. 0000

25 Tablets

NDC 0044-0727-01

APR 11 1987

MAY 1 1987

vicodin[®]

Each tablet contains:
 hydrocodone bitartrate 5 mg
 (Warning: May be habit forming.)
 acetaminophen 500 mg

Usual adult dose: See package insert.
Caution: Federal law prohibits dispensing without prescription.
Storage: 59°-86°F, (15°-30°C).

This package is not child-resistant.



Knoll Pharmaceuticals
 A Unit of BASF K&F Corporation
 30 North Jefferson Road
 Whippany, N.J. 07981

BASF Group

5783A

100 Tablets

100 Tablets
(4-25 Tablet Blister Cards)

NDC 0044-0727-41

vicodin[®]

vicodin[®]



Each tablet contains:

hydrocodone bitartrate

5 mg

(Warning: May be habit forming.)

acetaminophen

500 mg

Usual adult dose: See package insert.

Caution: Federal law prohibits dispensing without prescription.

Storage: 59°-86°F, (15°-30°C).

This package is not child-resistant.



BASF Group



Knoll Pharmaceuticals

A Unit of BASF K&F Corporation
Whippany, New Jersey 07981

BASF Group

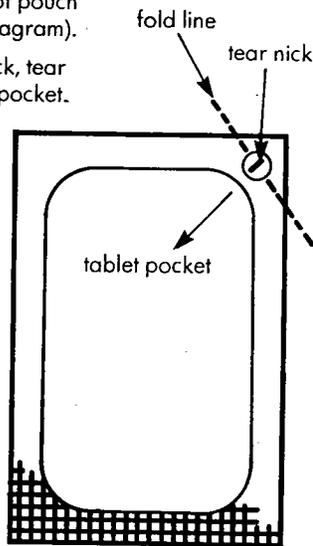
APPROXIMATE
MAY 1 1981

5784

H414

**Directions for opening enclosed
child-resistant foil pouches:**

1. Fold back corner of pouch
at tear nick (see diagram).
2. Starting at tear nick, tear
foil toward tablet pocket.



APPROVED

MAY 11 1987

MAY 11 1987

25 Tablets

NDC 0044-0727-91

vicodin®

See back panel for pouch opening instructions.

Each tablet contains:
hydrocodone bitartrate 3 mg
(Warning: May be habit forming.)
acetaminophen 500 mg
Usual adult dose: See package insert.
Store at controlled room temperature
(59°-86° F, 15°-30° C).
Caution: Federal law prohibits
dispensing without prescription.

5765



Knoll Pharmaceuticals
A Unit of K&F Corporation
Whippany, New Jersey 07981

Knoll Pharmaceuticals
A Unit of BASF K&F Corporation
Whippany, New Jersey 07981

5767

Each tablet contains:
hydrocodone bitartrate 5 mg.
(Warning: May be habit
forming.)
acetaminophen 500 mg.
Usual adult dose: See package
insert.
Storage: 59°-86°F (15°-30°C).
Caution: Federal law prohibits
dispensing without prescription.



100 TABLETS NDC 0044-0727-41

Vicodin

100 TABLETS NDC 0044-0727-41

vicodin[®]

Each tablet contains: hydrocodone
bitartrate 5 mg. (Warning: May be habit
forming.) acetaminophen 500 mg.

Usual adult dose: See package insert.

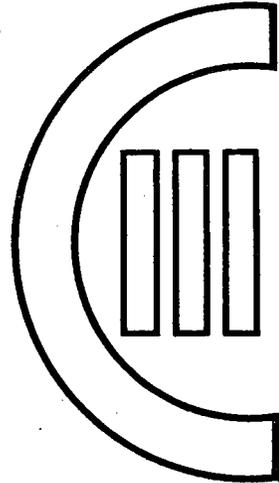
Storage: 59°-86°F (15°-30°C).

Caution: Federal law prohibits dispensing
without prescription.



Knoll Pharmaceuticals

A Unit of BASF K&F Corporation
Whippany, New Jersey 07981



APPROVED

MAY 11 1987

MAY 11 1987

NDC 0044-0727-03 500 Tablets

vicodin®

300440727031R



Each tablet contains:
5 mg hydrocodone bitartrate
(Warning: May be habit forming.)
500 mg acetaminophen
Usual adult use: See package insert.
Caution: Federal law prohibits dispensing
without prescription.
Storage: 59°-86°F (15°-30°C).
Dispense in tight, light-resistant container
as defined in USP.

5778

AP
AIPP

MAY 11 1993



Knoll Pharmaceuticals
A Unit of BASF K&F Corporation
Whippany, New Jersey 07981

+3004407270210



NDC 0044-0727-02 100 Tablets

vicodin[®]

Each tablet contains
5 mg hydrocodone bitartrate
(Warning: May be habit forming.)
500 mg aspirin

Usual Dosage: See package insert.

Caution: Federal law prohibits dispensing without prescription.

Storage: 59° F (15°-30° C). Dispense in light-resistant container as defined in USP.



MAY 11 1987

Knoll Pharmaceuticals
A Unit of BASF K&F Corporation
Whippany, New Jersey 07981

3000 Tablets

NDC 0044-0727-06

Vicodin

Each tablet contains:

Hydrocodone bitartrate
(Warning: May be habit forming)
Acetaminophen

5 mg
500 mg

FEB 29 1988

FEB 29 1988

Each tablet contains:
Hydrocodone bitartrate
(Warning: May be habit forming)
Acetaminophen

5 mg
500 mg

FEB 29 1988

FEB 29 1988

FEB 29 1988

Usual adult dosage: See package insert.

Caution: Federal law prohibits dispensing without a prescription.

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

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

Dispense in a tight, light-resistant container as defined in the USP.

Dispense in a tight, light-resistant container as defined in the USP.

5801

5801



Knoll Pharmaceuticals
A Unit of BASF K&F Corporation
Whippany, New Jersey 07981
BASF Group



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A Unit of BASF K&F Corporation
Whippany, New Jersey 07981
BASF Group

APPROVED

APPROVED

APPROVED

3000 Tablets

NDC 0044-0727-06

Vicodin

Each tablet contains:

Hydrocodone bitartrate
(Warning: May be habit forming)
Acetaminophen

5 mg
500 mg

FEB 29 1988

Usual adult dosage: See package insert.

Caution: Federal law prohibits dispensing without a prescription.

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

Dispense in a tight, light-resistant container as defined in the USP.

5801



Knoll Pharmaceuticals
A Unit of BASF K&F Corporation
Whippany, New Jersey 07981
BASF Group

**CENTER FOR DRUG
EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

**88-058/S-001;S-002;S-003;
S-004;S-005;S-006;S-007;S-008;
S-009;S-011;S-012;S-013;S-014;
S-015;S-016;S-017;S-018;S-019;
S-020;S-021;S-022;S-023;S-024**

CHEMISTRY REVIEW(S)

CHEMIST'S REVIEW FOR
ABBREVIATED NEW DRUG APPLICATION
OR SUPPLEMENT

Statement Date:
DESI 7289

NDA NUMBER:
88-058/S-001, S-002

NAME AND ADDRESS OF APPLICANT

Knoll Pharmaceutical Company - Whippany, NJ 07981

ORIGINAL
AMENDMENT
SUPPLEMENT
RESUBMISSION
CORRESPONDENCE
REPORT
OTHER

PURPOSE OF AMENDMENT/SUPPLEMENT

Control revision & exp. date

DATE(s) of SUBMISSION:
as per letter

PHARMACOLOGICAL CATEGORY

analgesic & antitussive

NAME OF DRUG

Hydrocodone Bitartrate &
APAP

HOW DISPENSED

RX XX OTC

DOSAGE FORM(S)

tablet

POTENCY(IES)

5 mg & 500 mg

RELATED IND/NDA/DMF

88-058

STERILIZATION

SAMPLES

LABELING

1. Satisfactory per KJ
2. "New formula" sticker not needed per Mr. Knapp's memo

BIOLOGIC AVAILABILITY

NA

ESTABLISHMENT INSPECTION

not on alert list

COMPONENTS, COMPOSITION, MANUFACTURING, CONTROLS

PACKAGING

Satisfactory, amber glass

STABILITY

Protocol: Satisfactory

REMARKS AND
CONCLUSION:

Review W/F

Note: (a)
(b)

DMF

C. Chang

ISI - 30-04

CHEMIST'S REVIEW FOR
ABBREVIATED NEW DRUG APPLICATION
OR SUPPLEMENT

Statement Date:

DESI 7289

NDA NUMBER:

88-058/S-001, S-002

NAME AND ADDRESS OF APPLICANT

Knoll Pharmaceutical Company - Whippany, NJ 07981

ORIGINAL
AMENDMENT
SUPPLEMENT
RESUBMISSION
CORRESPONDENCE
REPORT
OTHER

PURPOSE OF AMENDMENT/SUPPLEMENT

Control revision & exp. date

DATE(s) of SUBMISSION
as per letter

PHARMACOLOGICAL CATEGORY

analgesic & antitussive

NAME OF DRUG

Hydrocodone Bitartrate &
APAP

HOW DISPENSED

RX XX OTC

DOSAGE FORM(S)

tablet

POTENCY(IES)

5 mg & 500 mg

RELATED IND/NDA/DMF

88-058

STERILIZATION

SAMPLES

LABELING

1. Satisfactory per KJ
2. "New formula" sticker not needed per Mr. Knapp's memo

BIOLOGIC AVAILABILITY

NA

ESTABLISHMENT INSPECTION

not on alert list

COMPONENTS, COMPOSITION, MANUFACTURING, CONTROLS

PACKAGING

Satisfactory, amber glass

STABILITY

Protocol: Satisfactory

REMARKS AND
CONCLUSION:

Review W/F

Note: (a)

(b)

DMF

C. Chang

151 12-29-83

ABBREVIATED NEW DRUG APPLICATION
OR SUPPLEMENT

DESI 7289

NDA NUMBER:

88-058/S-001, S-002, S-003

NAME AND ADDRESS OF APPLICANT

11 Pharmaceutical Company
Whippany, NJ 07981

ORIGINAL
AMENDMENT
SUPPLEMENT
RESUBMISSION
CORRESPONDENCE
REPORT
OTHER

PURPOSE OF AMENDMENT

Control revision

DATE(S) OF SUBMISSION(S)

As per letter

PHARMACOLOGICAL CATEGORY

NAME OF DRUG

HOW DISPENSED

Analgesic & antitussive

Hydrocodone Bitartrate & APAP

RX X OTC

DOSAGE FORM(S)

POTENCY (IES)

RELATED IND/NDA/DMF

Tablet

5 mg & 500 mg

88-058

STERILIZATION

SAMPLES

LABELING

1. Satisfactory per K. Johnson.
2. "New formula" sticker not needed per Mr. Knapp's memo.

BIOLOGIC AVAILABILITY

N/A

ESTABLISHMENT INSPECTION

Not on "Alert" list

COMPONENTS, COMPOSITION, MANUFACTURING, CONTROLS

PACKAGING

Satisfactory, amber glass.

STABILITY

Protocol: Satisfactory.

REMARKS AND

CONCLUSIONS: Review W/F

Note:

(a)

(b)

~~DMF~~

C. Chang

/S/ - 7-2-84

CHEMISTS REVIEW FOR
ABBREVIATED NEW DRUG APPLICATION
OR SUPPLEMENT

STATEMENT DATE:

NDA NUMBER:

DESI 7289

85-058/S-001, S-002
S-003, S-004, S-005

NAME AND ADDRESS OF APPLICANT

Knoll Pharmaceutical Company
Company, NJ 07981

ORIGINAL
AMENDMENT
SUPPLEMENT
RESUBMISSION
CORRESPONDENCE
REPORT
OTHER

PURPOSE OF AMENDMENT

Manuf. & Labeling revisions (S-004, S-005)

Control revision & procedures (S-001, S-002, S-003)

DATE(S) OF SUBMIS:

PHARMACOLOGICAL CATEGORY

Analgesic & antitussive

NAME OF DRUG

Hydrocodone Bitartrate & APAP

HOW DISPENSED

RX OTC

DOSAGE FORM(S)

Tablet

POTENCY (IES)

5 mg & 500 mg

RELATED IND/NDA/DM

88-058

STERILIZATION

SAMPLES

LABELING

1. Satisfactory per T.Poux
2. "New formula" sticker not needed per Mr. Knapp's memo.

BIOLOGIC AVAILABILITY

N/A

ESTABLISHMENT INSPECTION

Not on "Alert" list

COMPONENTS, COMPOSITION, MANUFACTURING, CONTROLS

PACKAGING

Satisfactory, amber glass. Black metal cap.

STABILITY

REMARKS AND

CONC 'IONS: Note: (a)
(b)

DMF #

APPROVALS

C. Chang

ISI 11-21-84

ABBREVIATED NEW DRUG APPLICATION
OR SUPPLEMENT

STATEMENT DATE:

NDA NUMBER:

DESI 7289

85-058/S-001, S-002
S-003, S-004, S-005

NAME AND ADDRESS OF APPLICANT

Knoll Pharmaceutical Company
New Jersey, NJ 07981

ORIGINAL
AMENDMENT
SUPPLEMENT
RESUBMISSION
CORRESPONDENCE
REPORT
OTHER

PURPOSE OF AMENDMENT

Manuf. & Labeling revisions (S-004, S-005)

Control revision & procedures (S-001, S-002, S-003)

DATE(S) OF SUBMISSION

PHARMACOLOGICAL CATEGORY

Analgesic & antitussive

NAME OF DRUG

Hydrocodone Bitartrate & APAP

HOW DISPENSED

RX OTC

DOSAGE FORM(S)

Tablet

POTENCY (IES)

5 mg & 500 mg

RELATED IND/NDA/DMF

88-058

STERILIZATION

SAMPLES

LABELING

1. Satisfactory per T.Poux
2. "New formula" sticker not needed per Mr. Knapp's memo.

BIOLOGIC AVAILABILITY

N/A

ESTABLISHMENT INSPECTION

Not on "Alert" list

COMPONENTS, COMPOSITION, MANUFACTURING, CONTROLS.

PACKAGING

Satisfactory, amber glass. Black metal cap.

STABILITY

Protocol: Satisfactory

REMARKS AND

CONCURRENCES:

Note: (a)
(b)

DMF 1

APPROVALS

C. Chang



7-21-84

CHEMIST'S REVIEW NDA 88-058/S-006, S-007

3. NAME AND ADDRESS OF APPLICANT

Knoll Pharmaceutical Company
Attention: Robert W. Ashworth
30 North Jefferson Road
Whippany, NJ. 07981

6. NAME OF DRUG

Hydrocodone Bitartrate and Acetaminophen

8. SUPPLEMENT(s) PROVIDE(s) FOR:

S-006: Provides for the packaging of 100 Vicodin Tablets in 160 cc white plastic _____ bottles with a _____ metal cap.

S-007: Provides for the packaging of 500 Vicodin Tablets in 625 cc white plastic _____ bottles with a _____ metal cap.

10. PHARMACOLOGICAL CATEGORY

Analgesic and Antitussive

11. HOW DISPENSED

Rx

13. DOSAGE FORM(s)

Tablet

14. POTENCY

5 mg and 500 mg

17. COMMENTS

[Empty box for comments]

18. CONCLUSIONS AND RECOMMENDATIONS

Review w/f

19. REVIEWER:

Bill Marnane

[Signature]

DATE COMPLETED:

2/4/96

3. NAME AND ADDRESS OF APPLICANT

Knoll Pharmaceutical Company
30 North Jefferson Road
Whippany, NJ 07981

6. NAME OF DRUG

Vicodin

7. NONPROPRIETARY NAME

Hydrocodone Bitartrate/Acetaminophen

8. SUPPLEMENT(s) PROVIDE(s) FOR:

S-008: Provides for the packaging of Vicodin Tablets in blister packages;
S-009: Requests an expiration date for the new package; S-011: labeling
for new packaging.

10. PHARMACOLOGICAL CATEGORY

Analgesic/Antitussive

11. HOW DISPENSED

Rx

13. DOSAGE FORM(s)

Tablet

14. POTENCY

5 mg/500 mg

15. CHEMICAL NAME AND STRUCTURE

See USP

17. COMMENTS

See History in our November 4, 1986 correspondence.

18. CONCLUSIONS AND RECOMMENDATIONS

Approval

19. REVIEWER:

Bill Marnane

DATE COMPLETED:

12/5/87

27. PACKAGING AND LABELING

net

29. STABILITY

[]

3. NAME AND ADDRESS OF APPLICANT

Knoll Pharmaceutical Company
Attention: Robert W. Ashworth
30 North Jefferson Road
Whippany, N.J. 07981

6. NAME OF DRUG

Vicodin

7. NONPROPRIETARY NAME

Hydrocodone Bitartrate/Acetaminophen

8. SUPPLEMENT(s) PROVIDE(s) FOR:

S-008: Provides for the packaging of Vicodin Tablets in blister packages.

S-009: Requests an expiration date for the new package form.

9. AMENDMENTS AND OTHER DATES:

Firm

Supplements: 006, 007, 12/16/85 providing for packaging Vicodin in bottles (160 and 625cc)

Supplements: 008, 009, 1/21/86 provided for new blister package and 2 year expiration date.

Report 07 requesting 3 year expiration-OK.
9/15/86 amendment for S-008 and S-009

FDA

2/5/86-Replied to supplements: 006, 007 (Not Approvable)

3/17/86-Replied to supplements: 008, 009 (Not Approvable)

10/28/86-Replied to supplements: 008, 009 (Not Approvable)

10. PHARMACOLOGICAL CATEGORY

Analgesic and Antitussive

11. HOW DISPENSED

Rx

13. DOSAGE FORM(s)

Tablet

14. POTENCY

5 mg and 500 mg

18. CONCLUSIONS AND RECOMMENDATIONS

Not Approvable

19. REVIEWER:

Bill Marnane

DATE COMPLETED:

11/3/86

Redacted _____

CMC

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confidential

commercial

information

3. NAME AND ADDRESS OF APPLICANT

Knoll Pharmaceutical Company
Attention: Robert W. Ashworth
30 North Jefferson Road
Whippany, NJ. 07981

6. NAME OF DRUG

Vicodin

7. NONPROPRIETARY NAME

Hydrocodone Bitartrate/Acetaminophen

8. SUPPLEMENT(s) PROVIDE(s) FOR:

S-008: Provides for the packaging of Vicodin Tablets in blister packages.

S-009: Requests an expiration date for the new package form.

9. AMENDMENTS AND OTHER DATES:

Firm

Supplements: 006, 007, 12/16/85 providing for packaging Vicodin in bottles (160 and 625cc)

Supplements: 008, 009, 1/21/86 provided for new blister package and 2 year expiration date.

Report 07 requesting 3 year expiration-OK.

FDA

2/5/86-Replied to supplements: 006, 007 (Not Approvable)

3/17/86-Replied to supplements: 008, 009 (Not Approvable)

10. PHARMACOLOGICAL CATEGORY

Anaesthetic and Antitussive

11. HOW DISPENSED

Rx

13. DOSAGE FORM(s)

Tablet

14. POTENCY

5 mg and 500 mg

18. CONCLUSIONS AND RECOMMENDATIONS

Not Approvable

19. REVIEWER:

Bill Marnan

DATE COMPLETED:

151 3/17/86

CML

Redacted _____

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confidential

commercial

information

3. NAME AND ADDRESS OF APPLICANT

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, NJ 07981

6. NAME OF DRUG

Vicodin

7. NONPROPRIETARY NAME

Hydrocodone Bitartrate and Acetaminophen

8. SUPPLEMENT(S) PROVIDE(S) FOR:

S-013: New 128 oz. (3000 tablet) package
S-014: 24 month expiration date for S-013
S-015: Labelig for S-013

10. PHARMACOLOGICAL CATEGORY

Analgesic/Antitussive

11. HOW DISPENSED

Rx

13. DOSAGE FORM(S)

Tablets

14. POTENCY

5 mg/500 mg

18. CONCLUSIONS AND RECOMMENDATIONS

Review w/f

19. REVIEWER:

William Marnane

DATE COMPLETED:

1/5/02 8/10/02

APPEARS THIS WAY
ON ORIGINAL

3. NAME AND ADDRESS OF APPLICANT

Knoll Pharmaceutical Company
30 North Jefferson Road
Whippany, NJ 07981

6. NAME OF DRUG

Vicodin

7. NONPROPRIETARY NAME

Hydrocodone Bitartrate and Acetaminophen

8. SUPPLEMENT(s) PROVIDE(s) FOR:

S-017: Manufacture of Vicodin tablets in an

10. PHARMACOLOGICAL CATEGORY

Analgesic/Antitussive

11. HOW DISPENSED

Rx

13. DOSAGE FORM(s)

Tablet

14. POTENCY

5 mg/500 mg

17. COMMENTS

EER is acceptable

18. CONCLUSIONS AND RECOMMENDATIONS

Approval

19. REVIEWER:

Bill Marnane *WGM*

2089m

DATE COMPLETED:

11/5/88

APPEARS THIS WAY
ON ORIGINAL

CHEMISTRY REVIEW FOR ANDA OR SUPPLEMENT

rev # 1

ANDA 88-058/S-018, S-019

NAME AND ADDRESS OF APPLICANT:

Knoll Pharmaceuticals
30 North Jefferson Road
Whippany, NJ 07981

PURPOSE OF AMENDMENT/SUPPLEMENT

Revision of package insert - deleting _____ (S-018)
Firm will use only _____ in manuf. of subject
product. (S-019)

DATE(S) OF SUBMISSION(S)

2/1/89
10/20/89

PHARMACOLOGICAL CATEGORY
analgesic/antitussive

TRADE NAME
Vicodin

DOSAGE FORM
Tablet

POTENCY
5 mg hydrocodone bitartrate/
500 mg acetaminophen

RX OR OTC
Rx

SAMPLES

RELATED IND/NDA/DMF
DMF - _____ (September 1989 update)
DMF - _____ (equipment description for plant located in
_____)

LABELING

Insert revision - satisfactory - Review dated 1/4/90 Y. Mille (S-018)

COMPONENTS, COMPOSITION, MANUFACTURING, CONTROLS

Change: Component _____ does not contain _____

PACKAGING

Containers as described in package insert: Plastic bottles - 100's, 500's
hospital unit dose package - 100 (4 X 25 tablets).

STABILITY

Lot #H48-150 tested for assay and dissolution. Stored at:

1. RT, tested at 0, 3, 6, 9, 12, months.
2. 37°C/75% RH, tested at 1, 3, months
3. 45°C, tested at 2 months.

Data are satisfactory, however insufficient. Product should also be tested for appearance, friability, hardness, color and moisture. Data must be submitted for studies on both bottle sizes (100's, 500's) and unit dose blister packaged samples. 24 month expiry date is requested for product packaged in bottle, and 18 month expiry date for product packed in unit dose blisters (same as approved product). Firm commits to put the first three commercial lots into stability program.

REMARKS AND CONCLUSION

S-019 is Not Approvable at this time.

1. Stability data are insufficient.
 - a) Additional test should be performed at each test station.
 - b) All 3 package sizes (100's, 500's, blister packs) should be put on studies.
2. DMF — is deficient.

IS 1/19/90
Shirley S. Brown 1/11/90
R/D Init. by RMPatel 1/12/90
jth: 1/18/90 0485j

APPEARS THIS WAY
ON ORIGINAL

Review FT 1/18/90

Review #2

ANDA

88-058/S-018, S-019

NAME AND ADDRESS OF APPLICANT:

Knoll Pharmaceuticals
30 North Jefferson Road
Whippany, NJ 07981

PURPOSE OF SUPPLEMENT

S-018 Revision of package insert, deleting ~~warning~~
S-019 Manufacture of drug product using only

DATES OF SUBMISSIONS

2-1-89 original submission
10-20-89 amendment
2-1-90 correspondence
2-8-90 amendment
9-17-90 amendment

PHARMACOLOGICAL CATEGORY

TRADE NAME

NONPROPRIETARY NAME

analgesic/ antitussive

Vicodin

hydrocodone bitartrate/
acetaminophen

DOSAGE FORM

POTENCY

RX OR OTC

tablet

5mg/ 500mg

Rx

RELATED DMFs

6999 - equipment description for plant located in
manufacturing

3142 - updated 9/6/90 remains deficient

LABELING

Satisfactory as of 10-20-89

ESTABLISHMENT INSPECTION

pending. EER dated 1-12-90

COMPONENTS, COMPOSITION, MANUFACTURING, CONTROLS

Change: Applicant's use of _____ manufactured
without _____

PACKAGING

Containers as described in package insert: plastic bottles - 100s,
500s and hospital unit dose blisters-100 (4 X 25)

STABILITY

10-20-89

Lot #H48-150 (container size is not described) - tests: assay
and dissolution. Stored at:

1. RT, tested at 0, 3, 6, 9, 12 months
2. 37°C/75% RH, tested at 1, 3 months
3. 45°C, tested at 2 months

2-8-90

Lot #H48-150 (100s) - tests: assay and dissolution.
Stored at:

1. RT, tested at 0, 3, 6, 9, 12, 18 months
2. 37°C/75% RH, tested at 1, 3 months
3. 45°C, tested at 2 months

Lot #10762738 (unit dose blisters) - tests: description,
disintegration, hardness, friability, assay and dissolution.

Storage condition - RT.

Test stations are 0 and 6 months.

Lot #10760099 (500s) - tests: description, disintegration,
hardness, friability, assay and dissolution.

Storage condition - RT.

Test stations are 0 and 6 months.

Lot #10760109 (100s) - tests: description, disintegration,
hardness, friability, assay and dissolution.

Storage condition - RT.

Test stations are 0 and 6 months.

Lot #10760359 (unit dose blisters) - tests: description, hardness, friability, assay and dissolution.
Storage conditions - RT.

Test stations are 0 and 6 months.

Lot #10762718 (100s) - tests: description, disintegration, hardness, friability, assay and dissolution.
Storage condition - RT.

Test stations are 0 and 6 months.

Lot #10762728 (500s) - tests: description, disintegraton, hardness, friability, assay and dissoluton.
Storage condition - RT.

Test stations are 0 and 6 months.

REMARKS AND CONCLUSION

- (1) Stability data are not sufficient to support an expiry date of 24 months in the bottled product and 18 months for the unit dose blister.
- (2) DMF — remains deficient.
- (3) EER is pending. Request dated 1-12-90.

SUPPLEMENTS ARE NOT APPROVABLE AT THIS TIME.

Reviewer

Shirley S. Brown
Shirley S. Brown

Date Completed

3/26/91
3-8-91

cc: ANDA #88-058/S-019

Review Chemist's name: Shirley S. Brown

Supervisor's name: Bob Permisohn (acting)

cls/03/25/91/b:88-058.REV

R. J. Hunter for R. Permisohn (acting)
March 27, 1991

Chemistry Review #3

ANDA

88-058/S-018, S-019

NAME AND ADDRESS OF APPLICANT:

Knoll Pharmaceuticals
30 North Jefferson Road
Whippany, NJ 07981

PURPOSE OF SUPPLEMENT

S-018 Revision of package insert, deleting ~~_____~~ warning
S-019 Manufacture of drug product using only ~~_____~~

DATES OF SUBMISSIONS

2-1-89 original submission
10-20-89 amendment
2-1-90 correspondence
2-8-90 amendment
9-17-90 amendment
*6-7-91 amendment

PHARMACOLOGICAL CATEGORY

analgesic/ antitussive

TRADE NAME

Vicodin

NONPROPRIETARY NAME

hydrocodone bitartrate/
acetaminophen

DOSAGE FORM

tablet

POTENCY

5mg/ 500mg

RX OR OTC

Rx

RELATED DMFs

6999 - equipment description for plant located in
manufacturing

3142 - manufacture of ~~_____~~
Satisfactory. Review dated 6/20/91 by OGD.

LABELING

Satisfactory as of 10-20-89 (K. Shah)

ESTABLISHMENT INSPECTION

Pending. EER dated 1-12-90, Re-Request 4/2/92.

COMPONENTS, COMPOSITION, MANUFACTURING, CONTROLS

Change: Applicant will use _____ which is
manufactured without adding _____

Satisfactory

PACKAGING

No change. Containers as described in package insert: plastic bottles - 100s, 500s and hospital unit dose blisters-100 (4 X 25)

Satisfactory

STABILITY

Lot #H48-150 (160cc plastic bottle, 100s) - tests: assay and dissolution. Stored at:

1. RT, tested at 0, 3, 6, 9, 12, 18, 24, 36 months
2. 37°C/75% RH, tested at 1, 3 months
3. 45°C, tested at 2 months

Lot #10762738 (unit dose blisters) - tests: description, disintegration, hardness, friability, assay and dissolution. Storage condition - RT.

Test stations are 0, 6, 12, 18 and 24 months.

Lot #10760099 (500s) - tests: description, disintegration, hardness, friability, assay and dissolution. Storage condition - RT.

Test stations are 0 and 6 months.

Lot #10760109 (100s) - tests: description, disintegration, hardness, friability, assay and dissolution. Storage condition - RT.

Test stations are 0 and 6 months.

Lot #10760359 (unit dose blisters) - tests: description, hardness, friability, assay and dissolution. Storage conditions - RT.

Test stations are 0, 6, 12, 18 and 24 months.

Lot #10762718 (100s) - tests: description, disintegration, hardness, friability, assay and dissolution. Storage condition - RT.

Test stations are 0, 6, 12, 18 and 24 months.

Lot #10762728 (500s) - tests: description, disintegration, hardness, friability, assay and dissolution.
Storage condition - RT.

Test stations are 0, 6, 12, 18 and 24 months.

Satisfactory

REMARKS AND CONCLUSION

- (1) Stability data are sufficient to support an expiry date of 24 months for the bottled product and 24 months for the unit dose blister as requested by applicant.
- (2) DMF — is acceptable.
- (3) EER is pending. Request dated 1-12-90 and 4/02/92.

SUPPLEMENTS ARE APPROVABLE PENDING RECEIPT OF ACCEPTABLE EER.

7/8/92 EER - acceptable 8/5/92

psbrown 8/10/92

Reviewer

Shirley S. Brown
Shirley S. Brown

Date Completed

5/18/92
2/25/92

cc: ANDA #88-058/S-019

Review Chemist's name: Shirley S. Brown

Supervisor's: MSmela/03/04/92

M. Smela 5/20/92

M. Smela 8/10/92
Acknowledges withdrawal
of in facility
(FAX attached) from
DMF

Hardcopy of
withdrawal rec'd
by submission dated
8/10/92
MJS 8/19/92

APPEARS THIS WAY
ON ORIGINAL

1. CHEMISTRY REVIEW NO. 1
2. ANDA # 88-058/S-021
3. NAME AND ADDRESS OF APPLICANT
Knoll Pharmaceutical Company
Attention: Robert W. Ashworth, Ph.D.
3000 Continental Drive-North
Mount Olive, NJ 07828-1234
6. PROPRIETARY NAME
Vicodin®
7. NONPROPRIETARY NAME
Hydrocodone bitartrate and acetaminophen
8. SUPPLEMENT(s) PROVIDE(s) FOR:
The addition of a testing facility located at 140 Hanover Avenue, Cedar Knolls, NJ to perform routine stability testing and to serve as an alternate release testing site.
9. AMENDMENTS AND OTHER DATES:
August 6, 1999
10. PHARMACOLOGICAL CATEGORY
Narcotic Analgesic
11. Rx or OTC
Rx
12. RELATED IND/NDA/DMF(s)
N/A
13. DOSAGE FORM
Tablet
14. POTENCY
5 mg/500 mg
17. COMMENTS
Submitted as CBE supplement.
18. CONCLUSIONS AND RECOMMENDATIONS
Approvable.
19. REVIEWER:
A.Langowski
- DATE COMPLETED:
1/6/2000

**APPEARS THIS WAY
ON ORIGINAL**

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information

Redacted _____

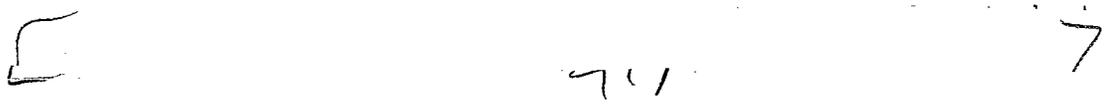
CMC

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commercial

information

1. CHEMISTRY REVIEW NO. 1
2. ANDA # 88-058/S-023
3. NAME AND ADDRESS OF APPLICANT
Knoll Pharmaceutical Company
Attention: Robert W. Ashworth, Ph.D.
3000 Continental Drive-North
Mount Olive, NJ 07828-1234
6. PROPRIETARY NAME
Vicodin®
7. NONPROPRIETARY NAME
Hydrocodone bitartrate and acetaminophen
8. SUPPLEMENT(s) PROVIDE(s) FOR:
Provides for an alternate ~~_____~~

9. AMENDMENTS AND OTHER DATA:
Submission date; March 6,
10. PHARMACOLOGICAL CATEGORY
Narcotic Analgesic Rx
12. RELATED IND/NDA/DMF(s)
N/A
13. DOSAGE FORM 14. POTENCY
Tablet 5 mg/500 mg
17. COMMENTS
Submitted as PAS expedite.
18. CONCLUSIONS AND RECOMMENDATIONS
Approvable.
19. REVIEWER: DATE COMPLETED:
A.Langowski 06/05/00

cmc

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information**

COMPONENTS, COMPOSITION, MANUFACTURING, CONTROLS



PACKAGING

N/A

STABILITY

No data, but procedures have been incorporated into single monograph.

REMARKS AND CONCLUSION

Approve.

RECALLS

Reviewer

A.Langowski

ORDER OF REVIEW:

The application submission(s) covered by this review was taken in the date order of receipt Yes x

No _____

If no, explain reason(s) below.

**APPEARS THIS WAY
ON ORIGINAL**

Redacted 3

CMC
S-025
4
S-026

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commercial

information

**CENTER FOR DRUG
EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

**88-058/S-001;S-002;S-003;
S-004;S-005;S-006;S-007;S-008;
S-009;S-011;S-012;S-013;S-014;
S-015;S-016;S-017;S-018;S-019;
S-020;S-021;S-022;S-023;S-024**

**ADMINISTRATIVE
DOCUMENTS**

FDA CDER EES
ESTABLISHMENT EVALUATION REQUEST
SUMMARY REPORT

Application: **ANDA 88058/023**
Stamp: **07-MAR-2000** Regulatory Due:
Applicant: **KNOLL PHARM**
30 NORTH JEFFERSON RD
WHIPPANY, NJ 07981

Priority:
Action Goal:
Brand Name: **VICODIN TABS**
Established Name: **ACETAMINOPHEN;HYDROCODON**
E BITARTRATE
Generic Name:
Dosage Form: **TAB (TABLET)**
Strength: **500 MG/5 MG**

Org Code: **600**

District Goal: **07-AUG-2000**

FDA Contacts: **M. ANDERSON (HFD-640) 301-827-5789 , Project Manager**
A. LANGOWSKI (HFD-647) 301-827-5849 , Review Chemist
G. SMITH (HFD-647) 301-827-5849 , Team Leader

Overall Recommendation:

ACCEPTABLE on 27-JUN-2000 by J. D AMBROGIO (HFD-324) 301-827-0062

Establishment: _____ DMF No:
_____ AADA No:

Profile: **CRU** OAI Status: **NONE**
Last Milestone: **OC RECOMMENDATION**
Milestone Date: **27-JUN-2000**
Decision: **ACCEPTABLE**
Reason: **BASED ON PROFILE**

Responsibilities: _____

**APPEARS THIS WAY
ON ORIGINAL**

FDA CDER EES
ESTABLISHMENT EVALUATION REQUEST
SUMMARY REPORT

Application: ANDA 88058/022	Priority:	Org
Stamp: 13-SEP-1999 Regulatory Due:	Action Goal:	Dist
Applicant: KNOLL PHARM	Brand Name: VICODIN TABS	
30 NORTH JEFFERSON RD	Established Name: ACETAMINO	
WHIPPANY, NJ 07981	E BITARTRA	
	Generic Name:	
	Dosage Form: TAB (TABLET)	
	Strength: 500 MG/5 MG	
FDA Contacts: A. LANGOWSKI (HFD-647)	301-827-5849	, Review Chemist
G. SMITH (HFD-647)	301-827-5849	, Team Leader

Overall Recommendation:**ACCEPTABLE on 23-SEP-1999 by M. EGAS (HFD-322) 301-594-0095**

Establishment: **2211084**
KNOLL PHARMACEUTICALS
30 NORTH JEFFERSON RD
WHIPPANY, NJ 07981

DMF No:
AADA No:

Profile: **TCM** OAI Status: **NONE**
Last Milestone: **OC RECOMMENDATION**
Milestone Date: **22-SEP-1999**
Decision: **ACCEPTABLE**
Reason: **BASED ON PROFILE**

Responsibilities: **FINISHED DO**

APPEARS THIS WAY
ON ORIGINAL

REVIEW OF PROFESSIONAL LABELING

Amendment to Supplement/FPL Container Labels, Package Insert Labeling

DATE OF REVIEW: January 27, 1988

ANDA #:88-058/S-015

CO. NAME: Knoll Pharmaceuticals

NAME OF DRUG: Trade: VICODIN

Generic: Hydrocodone Bitartrate and Acetaminophen Tablets,
5 mg/500 mg

DATE OF SUBMISSION: December 4, 1987

COMMENTS:

Container - Satisfactory in FPL for 3000s

Insert - Satisfactory

However, we refer you to our letter in response to Supplement 16 for
comments concerning the need for further revision of the labeling.

RECOMMENDATIONS:

1. Inform the firm of above comments.
2. From a labeling viewpoint this supplement is approvable.

#ana Mills */S/*

cc: */S/*
HFN-238 */128/88*
YMille/trc/1/28/88 */S/*
2105m page 13
Review of Prof. Labeling

APPEARS THIS WAY
ON ORIGINAL

REVIEW OF PROFESSIONAL LABELING

SUPPLEMENT

DRAFT: Container Label

DATE OF REVIEW: June 19, 1987

ANDA/NDA#: 88-058/S-015

NAME OF FIRM: Knoll

NAME OF DRUG: Trade: VICODIN
Generic: Hydrocodone Bitartrate and Acetaminophen Tablets,
5 mg/500 mg

DATE OF SUBMISSION: May 8, 1987

COMMENTS:

Container: Satisfactory in draft for 3000s

RECOMMENDATIONS:

1. Inform the firm of above comments.
2. Request the firm prepare and submit final printed container labels.
3. The 3000 tablet package size will be available upon special request only. However, it is the policy of this Division that all marketed containers should be noted in the HOW SUPPLIED section of labeling. Therefore, we ask that the firm add this information to the insert.

cc:

HFN-238

Ymille/KJohnson/bc/6/22/87

RPL

1800m/pg6

Yana Mille

APPEARS THIS WAY
ON ORIGINAL

REVIEW OF PROFESSIONAL LABELING

Amendment; Supplement/FPL

DATE OF REVIEW: March 27, 1987

MDA#: 88-058/S-011, S-012

NAME OF FIRM: Knoll Pharmaceuticals

NAME OF DRUG: Trade: VICODIN

Generic: Hydrocodone Bitartrate and Acetaminophen Tablets
5 mg/500 mg

DATE OF SUBMISSION: February 17, 1987

COMMENTS:

Unit Dose

- A. Blister Cards-Not Submitted
We are awaiting your response to our letter dated February 10, 1987.
- B. Individual Unit Dose Packets for Dump Dispenser and Strip Cartons -
Not Submitted
Submit twelve final printed copies of the unit-dose packets
currently in use.

Carton - Satisfactory for:

- A. Strip Carton of 25
- B. Unit Dose Carton 4 x 25
- C. Dump Dispenser

Container - Satisfactory for 100s and 500s

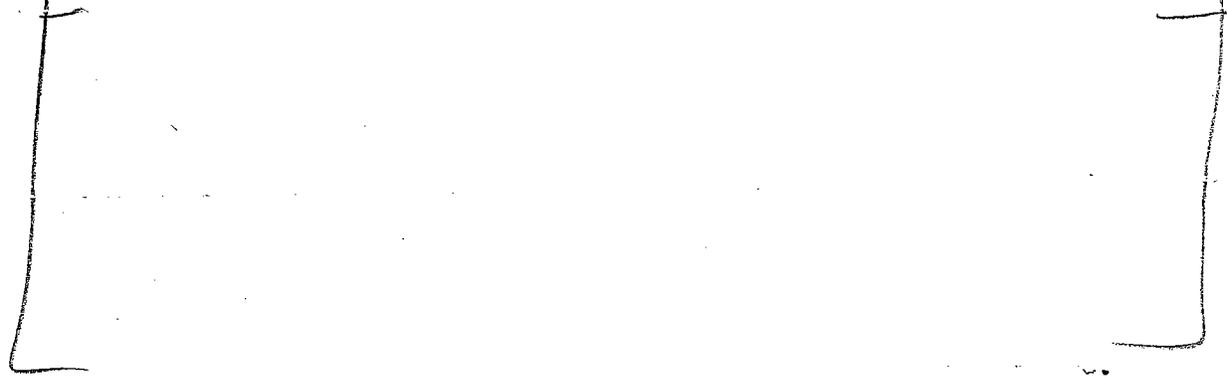
Insert - Satisfactory

However, at the time of next printing or within 90 days whichever comes first, revise the package insert labeling so it is in accord with our current labeling guideline for this product. The one exception to the guideline is the second paragraph in the DOSAGE AND ADMINISTRATION section which should be revised to read:

The usual adult dosage is one or two tablets every four to six hours as needed for pain. The total 24 hour dose should not exceed 8 tablets.

If you wish to include the dose for naloxone in the text of the insert it must be revised to reflect the dose currently reflected in the labeling of Narcan. When available submit draft copy for our review and comment. We are aware that further revision of the DOSAGE AND ADMINISTRATION may occur shortly and you should not prepare final printed labeling until requested to do so.

Furthermore, you must use the current phrasing for the warning
Agents; Labeling in Drugs for Human Use; Warning Statement;
Federal Register, Vol. 51, No. 234; December 5, 1986; pages 43900-43904].
The warning should be the first paragraph in the WARNINGS section.



RECOMMENDATIONS:

- 1. Inform the firm of above comments.

|S|
Yana Mille

cc:
HFN-238
KJohnson/YMIL 4/7/87
1417S
Review of P.S. Labeling
Pages 5-6
|S| 4.7.87

APPEARS THIS WAY
ON ORIGINAL

REVIEW OF PROFESSIONAL LABELING

Amendment; Supplement; FPL; Unit Dose Blister Cards
and Carton for the Blister Cards

DATE OF REVIEW: April 20, 1987

ANDA/NDA#: 88-058/S-011

NAME OF FIRM: Knoll Pharmaceuticals

NAME OF DRUG: Trade: VICODIN

Generic: Hydrocodone Bitartrate and Acetaminophen Tablets
5mg/500mg

DATE OF SUBMISSION: March 23, 1987

COMMENTS:

1. Unit Dose Blister Card - Satisfactory

2. Unit Dose Carton for 4x25 Blister Cards. - *satisfactory*

RECOMMENDATIONS:

1. Inform the firm of above comments.

2. Chemist:

Substitute number 1 above for item A under Unit-Dose in our review dated March 27, 1987. Add number 2 above as letter D. under carton in our review dated March 27, 1987.

HFN-238

KJohnson/YMille/shd/4-30-87

3400A/pg

RPL/DRAFT

ana Mille /S/

APPEARS THIS WAY
ON ORIGINAL



Memorandum

April 2, 1992

From Office of Generic Drugs
Requestor's Name DAVE DOLESKI / Shirley Brown
Subject ESTABLISHMENT EVALUATION REQUEST

HFD- 630/634
Phone 295-8310

To Division of Manufacturing & Product Quality (HFD-320)

Sterile Product _____ Non Sterile Product

Application and Supplement No. 88-058/S-018, S-019

Brand Name (if any) Vicoden Tablets

Establishment Name, Dosage Form and Strength Hydrocodone Bitartrate 5mg and Acetaminophen 500mg
Profile Class Code: TCM

Priority Classification: _____ (See SMG BD-4820.3)

Applicant's Name: Knoll Pharmaceuticals

Address: 30 North Jefferson Road, Whippany, NJ 07981

Facilities to be Evaluated: (Name, full Address, DMF No., and responsibility) _____
For HFD 320 Use Status & Date of Inspection: _____

- 1: _____
- 2: _____

Other Information or Special Requests: _____

For HFD-320 Use Only: _____ Date Received: _____

CGMP Compliance Status of Facilities Evaluated: _____

CSO: _____ Date Completed: _____

Distribution: Original and First Copy: HFD-320
Remaining Copies: Requesting Office Use

DATE: May 15, 1992
FROM: Shirley S. Brown
TO: Michael Smela
SUBJECT: EER Facilities to be Evaluated

ANDA 88-058/S-019
Vicodin Tablets (hydrocodone bitartrate and
acetaminophen)
Knoll Pharmaceuticals

The ~~_____~~ operates
~~_____~~ active
ingredient, ~~_____~~

1. ~~_____~~
~~_____~~
2. ~~_____~~
~~_____~~
~~_____~~

APPEARS THIS WAY
ON ORIGINAL

Knoll Pharmaceuticals



TELEFAX

BASF Group

Date: July 8, 1992 Pages: 2 Time: _____
To: Valerie Vashio/CSO-Office of Generic Drugs
Fax No.: 301-295- 8180
From: Claudia Skarbek
Copy to: _____

*Information
for file
Washio CSO
7/8/92*

Re: Vicodin Tablets (ANDA88-058)
S-018 and S-019

Dear Valerie:

As discussed this morning, please let me know later today if the attached letter will suffice for approval of the subject supplements.

Thank you,

Claudia Skarbek

Claudia Skarbek
Regulatory Associate

CS:dab
attach.



3381

Brown, S

Memorandum

8 July 92

From Division of Generic Drugs
Requestor's Name V Vashio
Subject ESTABLISHMENT EVALUATION REQUEST

HFD- 634
Phone 295 8370

To Division of Manufacturing & Product Quality (HFD-320)

Sterile Product _____ Non Sterile Product
Application and Supplement No. 88-058 / ~~5-018~~, S-019

Brand Name (if any) VICODIN TABLETS

Establishment Name, Dosage Form and Strength Hydrocodone Bitartrate ^{5mg} Tablet
and Acetaminophen 500mg Profile Class Code: TCM

Priority Classification: _____ (See SMG BD-4820.3)

Applicant's Name: KNOLL PHARMACEUTICALS

Address: 30 NORTH JEFFERSON ROAD, WHIPPANY, NJ 07981

Facilities to be Evaluated: (Name, full Address, DMF No., and responsibility)

For HFD 320 Use
Status & Date of Inspection:

- | | |
|----------|----------------|
| 1. _____ | <u>2/26/91</u> |
| 2. _____ | _____ |
| 3. _____ | _____ |
| 4. _____ | _____ |
| 5. _____ | _____ |

Other Information or Special Requests: Please reprocess, see attachment for DMF

For HFD-320 Use Only: Date Received: 7/9/92

CGMP Compliance Status of Facilities Evaluated: Acceptable

CSO: Melissa Garcia Date Completed: 8/5/92

Distribution: Original and First Copy: HFD-320
Remaining Copies: Requesting Office Use

RECORD OF TELEPHONE CONVERSATION/MEETING	DATE 11 Aug 92	
<p>Phone call was made to Knoll to request the hard copy document of the July 8, 1992 fax.</p> <p>Mr. Skarbelle agreed and would submit correspondence to the file</p>	NDA NUMBER 88-058	
	IND NUMBER S-018, S-019	
	TELECON/MEETING	
	INITIATED BY <input type="checkbox"/> APPLICANT/SPONSOR <input checked="" type="checkbox"/> FDA	MADE <input type="checkbox"/> BY TELEPHONE <input type="checkbox"/> IN PERSON
<p style="text-align: center;">APPEARS THIS WAY ON ORIGINAL</p>	PRODUCT NAME Vicodin Tablets	
	FIRM NAME Knoll	
	NAME AND TITLE OF PERSON WITH WHOM CONVERSATION WAS HELD Claudia Skarbelle	
<p style="text-align: center;">APPEARS THIS WAY ON ORIGINAL</p>	TELEPHONE NO. 201 887 8300	
	SIGNATURE Waduo CSO	DIVISION OBD



6.1 Brown, S. 228 61

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service 2812
S. Brown
Memorandum

April 2, 1992

From Office of Generic Drugs
Requestor's Name DAVE DOLESKI / Shirley Brown
Subject ESTABLISHMENT EVALUATION REQUEST

HFD- 630/634
Phone 295-8310

To Division of Manufacturing & Product Quality (HFD-320)

Sterile Product _____ Non Sterile Product

Application and Supplement No. [REDACTED] / 5-018, [REDACTED]

Brand Name (if any) Vicoden Tablets

Establishment Name, Dosage Form and Strength Hydrocodone Bitartrate 5mg and Acetaminophen 500 mg
Profile Class Code: TCM

Priority Classification: _____ (See SMG BD-4820.3)

Applicant's Name: Knoll Pharmaceuticals

Address: 30 North Jefferson Road, Whippany, NJ 07981

Facilities to be Evaluated: (Name, full Address, DMF No., and responsibility)

For HFD 320 Use
Status & Date of Inspection:

<u>[REDACTED]</u>	<u>20 UN 6/3/92</u>
<u>[REDACTED]</u>	<u>UN 2/10/91</u>

Other Information or Special Requests: _____

For HFD-320 Use Only: Date Received: APR 20 1992

CGMP Compliance Status of Facilities Evaluated: #1 unacceptable, #2 acceptable

CSO: Melissa Garcia Date Completed: 6/19/92

Distribution: Original and First Copy: HFD-320
Remaining Copies: Requesting Office Use
* See attached memo *

MEMORANDUM

DEPARTMENT OF HEALTH AND HUMAN SERVICES
PHS - MID-ATLANTIC REGION
FOOD AND DRUG ADMINISTRATION

DATE: 6/4/92

FROM: Matthew H. Lewis, District Director
Newark District

SUBJ: ANDA #88-058 (S-018,19)

TO: Compliance Evaluation Staff, HFD-320
FAX: FTS 295-8202

INFO: MPQAS, HFC-120, FTS 443-4625
Richard Davis, RFDD/HFR-MA1
Diana Kolaitis, DCB, NWK-DO
EDM Elaine C. Messa, DIB, NWK-DO

PRODUCT: Hydrocodone Bitartrate 5mg and Acetaminophen 500mg

APPLICANT: Knoll Pharmaceutical
30 North Jefferson Road
Whippany, NJ 07981

ESTAB: _____

CFN: _____

ESTAB TYPE: ✓ _____

DISTRICT RECOMMENDATION: Withholding Approval

DATE CONCURRENCE REQUESTED FROM CDER: 5/7/92

DATE NDA/ANDA AUDITED: 6/3/92

COMMENTS: Based upon inspectional findings, Newark District recommends the following:

Withholding approval of pending application because _____
does not manufacture _____

Matthew H. Lewis
Matthew H. Lewis, D.D.
Newark District

MHL:kb



6,1 Brown, S. 228

DEPARTMENT OF HEALTH & HUMAN SERVICES

2811

Public Health Service

S. Brown

Memorandum

April 2, 1992

From: Office of Generic Drugs
Requestor's Name: DAVE DOLESKI / Shirley Brown
Subject: ESTABLISHMENT EVALUATION REQUEST

HFD- 630/634
Phone 295-8310

To: Division of Manufacturing & Product Quality (HFD-320)

Sterile Product _____ Non Sterile Product

Application and Supplement No. ~~8-058/s-019~~ S-019

Brand Name (if any) Vicoden Tablets

Establishment Name, Dosage Form and Strength Hydrocodone Bitartrate 5mg and Acetaminophen 500 mg
Profile Class Code: TCM

Priority Classification: _____ (See SMG BD-4820.3)

Applicant's Name: Knoll Pharmaceuticals

Address: 30 North Jefferson Road, Whippany, NJ 07981

Facilities to be Evaluated: (Name, full Address, DMF No., and responsibility)

For HFD 320 Use
Status & Date of Inspection:

_____	UN 6/3/92
_____	AC 2/26/91

Other Information or Special Requests: _____

For HFD-320 Use Only: _____ Date Received: APR 20 1992

CGMP Compliance Status of Facilities Evaluated: #1 Unacceptable #2 Acceptable

CSO: Melissa Garcia Date Completed: 6/19/92

Distribution: Original and First Copy: HFD-320
Remaining Copies: Requesting Office Use

* See attached memo *



DEPARTMENT OF HEALTH & HUMAN SERVICES

PN

Memorandum

DATE: 1-12-90

TO : Division of Manufacturing & Product Quality (HFN-320)

FROM: Division of Generic Drugs HFN 234

Requester's Name R. M. Patel, PhD Phone 443-1396

ESTABLISHMENT EVALUATION REQUEST

Sterile Product No Non Sterile Product Yes

Application and Supplement No. 88-058 / 5018 and 5019

Brand Name (if any) Nicoderm Tablets

Establishment Name, Dosage Form and Strength Hydrocodone Bitartrate 5mg and Acetaminophen 500mg

Profile Class Code: TCM

Priority Classification: (See SMG BD-4820.3)

Applicant's Name: Knoll Pharmaceuticals

Address: 30 North Jefferson Road, Whippany, NJ 07981

Facilities to be Evaluated: (Name, full Address, DMF No., and responsibility)

For HFN-320 Use Status & Date of Inspection:

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OK 4/25/89
OK 3/27/89

Other Information or Special Requests: Cause Inspection to determine whether only the ownership changed from and/or the transfer of manufacturing processes.

For HFN-320 Use Only: Date Received 1-19-90

CGMP Compliance Status of Facilities Evaluated:

CSO: Date Completed

Distribution: Original and First Copy: HFN-320
Remaining Copies: Requesting Office Use

Handwritten notes: O -> n+320 DR -> n

**CENTER FOR DRUG
EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

**88-058/S-001;S-002;S-003;
S-004;S-005;S-006;S-007;S-008;
S-009;S-011;S-012;S-013;S-014;
S-015;S-016;S-017;S-018;S-019;
S-020;S-021;S-022;S-023;S-024**

CORRESPONDENCE

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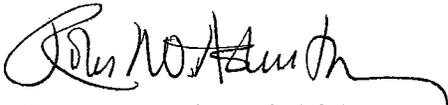
Page Two

- Letter from _____ effective April 1, 2000
- Letter of authorization to cross-reference _____ DMF _____ dated November 22, 1999.
- Knoll Technical Support Report demonstrating comparability of _____

Knoll commits to placing the first three production batches of Vicodin tablets _____ on stability.

If there are questions concerning this submission, I can be reached at 973/426-6012.

Sincerely,



Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

RWA:dsb

anda88-058.doc

**APPEARS THIS WAY
ON ORIGINAL**

Knoll Pharmaceutical Company

EER requested 9/21/99 Jm



FEDERAL EXPRESS

BASF Pharma

NDA NO. _____ REF NO. *SeB022*
NDA SUPPL FOR *Facility rw* / *SI*

Quidley
AS
9/21/99

September 10, 1999

Douglas L. Sporn, Director
Office of Generic Drugs, HFD-600
Center for Drug Evaluation and Research
Food and Drug Administration
Central Document Room
12229 Wilkins Avenue
Rockville, MD 20852-1833



Subject: ANDA 88-058
Vicodin® (hydrocodone bitartrate and acetaminophen tablets, USP) 5 mg/ 500 mg
SUPAC Supplement: Packaging Site Change - Changes Being Effected

Dear Mr. Sporn:

Pursuant to 21 CFR 314.70(a) and the Agency's letter to industry dated February 18, 1997, clarifying issues pertaining to the interpretation of the Scale-up and Post-Approval Changes Guidance for Immediate-Release Products (SUPAC-IR), which was published on November 30, 1995, Knoll Pharmaceutical Company hereby submits this supplemental application to provide for a _____

Vicodin tablets are currently manufactured, packaged, and tested by Knoll at the Whippany, New Jersey site. Blister packaging of this product was done by a _____ at its facility located at _____ . Knoll is planning to move the blister packaging of Vicodin tablets to its site at 30 North Jefferson Road, Whippany, New Jersey; this site underwent a satisfactory cGMP inspection on November 10, 1998. The container/closure system and equipment remain the same.

The enclosed report supports the site change using currently approved packaging materials at labeled storage conditions. As noted in the Overview, the first production batch, and annual batches thereafter, will be placed on the long-term stability program.

Sincerely,

Robert W. Ashworth, Ph. D.

Robert W. Ashworth, Ph. D.
Director, Regulatory Affairs



Knoll Pharmaceutical Company



BASF Pharma

*EER requested
8/12/99
M Anderson*

*Quantity
ISI
8/12/99*

VIA FEDERAL EXPRESS

August 6, 1999

Douglas L. Sporn
Director, Office of Generic Drugs
HFD-600, Bldg. MPN2
Center for Drug Evaluation and Research
Food and Drug Administration
Central Document Room
12229 Wilkins Avenue
Rockville, MD 20852-1833

NDA NO. _____ REF. NO. ScB021
FDA SUPPL. TOP Facility Add / SL

PAC-ATLS CBE SUPPLEMENT

Subject: ANDA 88-058
Vicodin® (hydrocodone bitartrate and acetaminophen tablets, USP) 5 mg/ 500 mg
Additional Analytical Laboratory Testing Site

Dear Mr. Sporn:

Knoll Pharmaceutical Company, Whippany, NJ has expanded our Quality Control laboratories to include an additional Knoll site in Cedar Knolls, NJ. This new laboratory was previously approved in March 1999 by your Division to conduct testing for Vicodin ES tablets (ANDA 89-736). The Cedar Knolls site is now eligible to utilize a postapproval changes - analytical testing laboratory site submission for other products since it has had a successful cGMP inspection and can now confirm that we meet the four PAC-ATLS criteria:

1. The test methods approved in the application or methods that have been implemented under 21 CFR 314.70(d) will be used.
2. All postapproval commitments made by Knoll relating to the test methods have been fulfilled.
3. The new testing facility has the capability to perform the intended testing.
4. The new testing facility has had a satisfactory current good manufacturing practice inspection within the past two years.

Effective August 9, 1999, the following tests will be performed in Cedar Knolls for Vicodin Tablets:



The new Knoll Pharmaceutical Company laboratory is located at 140 Hanover Avenue, Cedar Knolls, New Jersey, 07927.

Our intention is to conduct routine stability testing for Vicodin Tablets at the new Cedar Knolls site. The stability and release methods are the same; therefore, the site will also serve as a backup to the QC release lab in Whippany, if necessary.

Data demonstrating that the new site can perform the analytical tests transferred from the Whippany facility is contained in Appendix 1. The data generated at the receiving laboratory in Cedar Knolls, using the same samples, compared favorably to the data generated at the transferring laboratory in Whippany. A submission for Vicodin HP Tablets, ANDA 40-117, will be made separately.

If you have any questions regarding this submission, please do not hesitate to contact Lidia Mostovy at 973-426-6019 or me at 973-426-6012.

Sincerely,



Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

Enclosure

**APPEARS THIS WAY
ON ORIGINAL**

Knoll Pharmaceuticals

*OK as SCBE
9/4/92
OT*

*FPL
unit dose
bottle
satisfactory
K f. 4. 92*



*F. Phillips
9/8/92*

August 18, 1992

NDA NO. _____ REF. NO. 517-020

BASF Group

~~NDA #88-058 Label Revision~~

Roger L. Williams, M.D.
Division of Generic Drugs
Room 17-B20
Center for Drug Evaluation and Research
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

FPL



**Subject: Vicodin Tablets ANDA #88-058
Special Supplement - Changes Being Effected
Revised Unit Dose Pouch**

Dear Dr. Williams:

Reference is made to Knoll Pharmaceuticals' approved NDA #88-058 for Vicodin (5mg hydrocodone bitartrate/500mg acetaminophen) Tablets. Specific reference is made to your letter dated 5/29/92 in which you requested that we revise our unit dose pouch to include the dosage form "Tablet".

Pursuant to your request, we are supplementing the subject ANDA, in duplicate, with final printed labeling.

Enclosed you will find twelve copies (8-archival copy, 4-review copy) of the final printed unit dose pouch revised to include the dosage form "Tablet". This change went into effect with the packaging of Vicodin Tablets Unit Dose Control #10760532, which began on 8/10/92. The approximate date of distribution for this lot is 9/10/92.

Please include this information in the agency's file for Vicodin tablets ANDA #88-058.

Sincerely,

Claudia Sparkes/for

Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

RWA/CS/dsb
M-152

ORIGINAL

RECEIVED
AUG 26 1992
GENERIC DRUGS

*9/8/92
Printed*

ORIGINAL
SLI-000
88-058
LABEL REVISION

FPI

vicodin®
TABLET
hydrocodone bitartrate 5 mg
(WARNING: May be habit forming.)
acetaminophen 500 mg.
LOT 10760532
EXP. DATE 6/95
KNOLL PHARMACEUTICALS



APPROVED

SEP 10 1992

vicodin®
TABLET
hydrocodone bitartrate 5 mg
(WARNING: May be habit forming.)
acetaminophen 500 mg.
LOT 10760532
EXP. DATE 6/95
KNOLL PHARMACEUTICALS



APPROVED

SEP 10 1992

vicodin®
TABLET
hydrocodone bitartrate 5 mg
(WARNING: May be habit forming.)
acetaminophen 500 mg.
LOT 10760532
EXP. DATE 6/95
KNOLL PHARMACEUTICALS



APPROVED

SEP 10 1992

vicodin®
TABLET
hydrocodone bitartrate 5 mg
(WARNING: May be habit forming.)
acetaminophen 500 mg.
LOT 10760532
EXP. DATE 6/95
KNOLL PHARMACEUTICALS



APPROVED

SEP 10 1992

Knoll Pharmaceuticals



NEW CORRESP

BASF Group

August 10, 1992

Division of Generic Drugs
Room 17-B20
Center for Drug Evaluation and Research
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

RECEIVED

AUG 14 1992

GENERIC DRUGS

2
C
2/13/92
5/1/92

Subject: Vicodin Tablets ANDA #88-058
Supplement S-018, S-019

Dear Staff Member:

Reference is made to the subject supplement for Vicodin Tablets dated February 1, 1989, and amended on 10/20/89, 2/8/90, 9/17/90 and 6/7/91. Additional reference is made to a 6/30/92 telephone conversation with Ms. Valerie Vashio, Consumer Safety Officer, at which additional information from _____ was requested. On 7/8/92 the requested information was telefaxed to the Division of Generic Drugs.

In accordance with 21 CFR 314.20, Knoll Pharmaceuticals hereby amends the pending application, in duplicate, with the attached information from _____ telefaxed to the agency on 7/8/92.

We trust the approval of the pending supplements can proceed expeditiously.

Sincerely,

Claudia Skarbek/for

Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

RWA:dsb
M-150

Redacted _____

7/6/92
16

Page(s) of trade

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APR 2 1991

ANDA 88-058/S-018, S-019

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, NJ 07981

Dear Sir:

Reference is made to your supplemental new drug applications dated February 1, 1989 submitted pursuant to Section 314.70 of the Regulations, regarding your abbreviated new drug application for Vicodin Tablets (hydrocodone bitartrate and acetaminophen, 5 mg/500 mg).

Reference is also made to your communications dated October 20, 1989, February 8 and September 17, 1990 amending these supplements.

We acknowledge receipt of your correspondence dated February 1, 1990.

These supplemental applications provide for revised package insert no. 5830 (S-018) and use of ~~without added~~ in the manufacturing process (S-019).

~~These~~ supplemental application S-019 remains deficient and therefore not approvable under Section 505 of the Act for the following reasons:

1. The reference DMF ~~is~~ remains deficient. ~~is being notified.~~
2. Stability data are not sufficient to support an expiry date of 24 months in the bottled product and 18 months for the unit dose blister packaged product.

Three months accelerated stability data (100s, 500s and unit dose blisters stored at 40°C/75% RH and tested at 0, 1, 2, 3 months) will support a tentative 24 month expiry date. Simultaneously, data should be collected for the same size packages stored at room conditions.

The file is now closed. You are required to take an action described under 21 CFR 314.120 which will either amend or withdraw these supplemental applications. 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 these supplemental applications, you may request an opportunity for a hearing.

Sincerely yours,

[Signature] = 4/1/91
Acting Director
Division of Chemistry II
Office of Generic Drugs
Center for Drug Evaluation and Research

cc: ANDA #88-058/S-018, S-019
DUP/Division File
HFD-600 Reading File
HFD-638/YMille
HFD-634/RPatel/SBRown/03/11/91 *psb 3/26/91*
HFD-634/VVashio/03/19/91
R/D initialed by SSherken
cls/03/25/91/b:88-058 LTR
F/T by cls/03/25/91
Supplemental Not Approvable
Kenneth J. Purdy for R. M. Patel
March 27, 1991

APPEARS THIS WAY
ON ORIGINAL

Knoll Pharmaceuticals



OK

BASF Group

September 17, 1990

Division of Generic Drugs
Room 17-B20
Center for Drug Evaluation and Research
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

SUPPL NEW CORRES

*Refer to: S-018
S-019*

Subject: Vicodin Tablets ANDA #88-058
Supplement S-018, S-019

Dear Staff Member:

Reference is made to the subject supplement for Vicodin Tablets dated February 1, 1989. Additional reference is made to our February 8, 1990 response to your division's January 24, 1990 "not approvable" letter.

One of the deficiencies noted in our last correspondence involved _____ DMF # _____ for _____ We have recently been notified by _____ that an update for DMF # _____ was submitted to the agency on September 11, 1990.

Attached is a copy of the letter from _____ notifying Knoll Pharmaceuticals of the recent update as well as a copy of their letter authorizing Knoll to reference DMF # _____

At this time, we ask the agency to re-review DMF # _____ We trust that the updated DMF and the information provided in our February 8, 1990 correspondence will enable an expeditious approval of ANDA #88-058/S-018, S-019.

Sincerely,

Claudia Skarber /for

Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

CS/amd
Attachment

RECEIVED

SEP 25 1990

GENERIC DRUGS

Knoll Pharmaceuticals



BASF Group

5-018 insert satisfactory as of 10/20/89 submission. a few changes for the time of next printing 1/31/90

February 8, 1990

Division of Generic Drugs (HFD-630)
Room 17-B20
Center for Drug Evaluation and Research
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

NDA SUPPL AMENDMENT

S/018- Label S/019 Formulation

Subject: NDA #88-058 Vicodin Tablets (hydrocodone bitartrate 5mg/acetaminophen 500mg), S-018/S-019 Amendment in Response to Not Approvable Letter (January 24, 1990)

Dear Staff Member:

Reference is made to the above noted supplemental applications filed February 1, 1989 (amended October 20, 1989) and to the Agency's letter of January 24, 1990 which stated that these supplements were not approvable. These supplements provided for a revised package insert for product without added . Reference is also made to our letter of February 1, 1990 indicating our intention to submit an amendment.

At this time, Knoll Pharmaceuticals is further amending these supplements to provide responses to the deficiency comments noted in the Agency's letter of January 24, 1990. The deficiency comments (all of which relate to S-019) are restated below followed by Knoll's response.

1. The referenced DMF is deficient. is being notified.

Knoll was aware (September 14, 1989) of a deficiency of DMF in connection with supplements to another of our ANDA products. At that time, we were in contact with (the holder of DMF prior to its transfer to) who prepared and submitted an update responding to the noted deficiency.

In our S-018/019 amendment of October 20, 1989, we noted that DMF 3142 had been updated on October 13, 1989 in response to that deficiency letter from FDA.

Since receipt of the Agency's letter of January 24, 1990 we have contacted regarding DMF . They are unaware of any deficiency letter since their update of October 13, 1989. Present information indicates that the Agency's comment relative to S-019 is inaccurate.

To satisfy the Agency's request for additional stability data, however, we are providing the following which show acceptable stability of Vicodin.

- From the accelerated (stress)/room temperature program
 - o Lot #H48-150 plastic bottles of 100
 - o 3 month accelerated data
 - o 18 month room temperature data

- From the ongoing stability program (6 months room temperature data)
 - o Plastic bottles of 100 - lot #1076-2718
lot #1076-0109
 - o Plastic bottles of 500 - lot #1076-2728
lot #1076-0099
 - o Unit dose blisters - lot #1076-2738
lot #1076-0359

At the time of next printing, we will incorporate the recommended changes to our package insert and provide final printed copies to the Agency. As the package insert is satisfactory (according to the Agency's letter of January 24, 1990) we will not be making these changes at this time. The 3000 tablet bottle is not currently planned for market. It will be added to the "How Supplied" section prior to distribution.

We trust that this information will enable expeditious review and approval of supplements S-018/019.

Sincerely,

Robert W. Ashworth for
Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

FEL/amd

RECEIVED

FEB 13 1990

GENERIC DRUGS

Knoll Pharmaceuticals



BASF Group

February 1, 1990

file

Donald Burlington, M.D.
Acting Director
Division of Generic Drugs (HFD-230)
Center for Drug Evaluation and Research
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

Subject: NDA #88-058 Vicodin
Supplements S-018, S-019
Reply to Not Approvable Letter (January 24, 1990)

Dear Dr. Burlington:

Reference is made to the above noted supplemental applications filed February 1, 1989 (amended October 20, 1989) and to the Agency's letter of January 24, 1990 which stated that these supplements were not approvable.

At this time, Knoll Pharmaceuticals is notifying the Agency of its intention to file an amendment to these applications under the provisions of 21 CFR 314.120 (a). We are currently compiling information in response to the comments made in the Agency's letter of January 24, 1990.

A desk copy of this letter is also being provided to Mr. Peter Rickman, consumer safety officer.

Sincerely,

Jud E. Longley for
Robert W. Ashworth, Ph.D.
Director
Drug Regulatory Affairs

FEL/amd
cc: Mr. Peter Rickman, CSO (HFD-232)



BASF Group

October 20, 1989

Richard Terselic, Acting Director
Division of Generic Drugs
Center for Drug Evaluation and Research
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

NDA SUPPL AMENDMENT

SA 018-019

↑
Label ↑
Formulation

Subject: NDA #88-058: VICODIN Tablets
Supplements S-018, S-019, S-020
Amendment: Final Printed Labeling

S-018
Package Insert Labeling
Satisfactory
However, see review
J. Miller 1/4/90

Dear Mr. Terselic:

Reference is made to the above-noted supplements to our VICODIN (5 mg hydrocodone bitartrate/500 mg acetaminophen) NDA #88-058 submitted February 1, 1989. At this time we are amending these supplements, in duplicate, to provide the following.

1. **Final Printed Labeling** - Twelve copies of final printed insert No. 5830 are provided as follows.
 - a. 1 set mounted and bound and 7 sets mounted and unbound in the archival copy of this submission
 - b. 1 set mounted and bound and 3 sets unmounted and loose in an envelope in the review copy

As no adverse comments have been received from the Agency, the labeling changes are the same as those drafted in the February 1, 1989 submission. A copy of that draft labeling is provided for purposes of comparison to the current package insert (No. 5828).

2. **Stability** - We herewith formally request the same expiration dating as is currently approved for VICODIN (24 months in bottles and 18 months in unit dose blisters). In support of this we are updating the previously provided stability data which show acceptable stability in bottles.

We are not providing additional data on a lot in unit dose packaging but commit to putting the first three commercial-size lots into our stability program. Our rationale is as follows.

Richard Terselic
October 20, 1989
Page Two

- a. The composition of the finished drug product is unchanged.

VICODIN will continue to be manufactured according to the formula and procedure approved in NDA #88-058. The release specification remains unchanged as well.

- b. There is no difference in the quality of
with or without added

The minor processing change (deletion of



- c. The February 1, 1989 supplement to NDA #89-736 is effectively only a labeling change.

The ~~warning~~ warning was originally required for VICODIN because ~~in the~~ in the manufacture of ~~, could be present in~~, could be present in that component. It was a potential inactive ingredient to VICODIN.

~~removed~~ removed from the processing of ~~and therefore, as defined in 21CF~~ and therefore, as defined in 21CF 201.22, the ~~warning~~ warning is no longer necessary in the package insert.

No other change is being made to VICODIN as it is detailed in approved NDA #88-058.

For these reasons, we believe that no further stability data is required at this time. We do, however, reiterate our commitment to provide full-term stability data on three initial production-size lots and to remove from distribution any lots which show unacceptable stability.

3. DMF Authorization - We are providing a copy of a letter from ~~which~~ which authorizes Knoll Pharmaceuticals to reference

Richard Terselic
October 20, 1989
Page Three

DMF # _____ (in general and the recent update of October 13, 1989 in particular) in submissions made to the Agency.

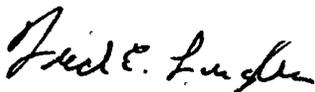
DMF # _____ (which covers production of the _____ used to manufacture VICODIN) was updated in response to comments from the Agency.

We request that the Agency re-review DMF # _____ to enable approval of our supplements (S-018, 019, 020) to NDA #88-058.

We trust that this information will allow expeditious approval of the above noted supplements.

A desk copy of this amendment is being provided to Mr. Peter Rickman, consumer safety officer.

Sincerely,



for Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

RWA/kg
Enclosure

Desk copy: Mr. Peter Rickman

RECEIVED
OCT 30 1989
GENERIC DRUGS

Knoll Pharmaceuticals

February 1, 1989

NDA NO. _____ REF. NO. 019
NDA SUPPL FOR Formulation



*Draft Incomplete
Not satisfactory
Revised &
submit to
J. Miller
3/15/89*

Marvin Seife, M.D., Director (HFD-230)
Division of Generic Drugs
Center for Drug Evaluation and Research
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

BASF Group

Subject: NDA 88-058 : Vicodin Tablets
Supplemental Application (S-018) -
Revised Insert No. 5830

NDA NO. _____ REF. NO. 018
NDA SUPPL FOR Label

DRAFT LABELING

Dear Dr. Seife:

Reference is made to Knoll Pharmaceuticals' approved NDA #88-058 for Vicodin (5mg hydrocodone bitartrate/500mg acetaminophen) Tablets. Specific reference is made to supplemental application S-016 approved on July 1, 1988. That supplement covered package insert No. 5828 which was revised to include (among other items) a warning as requested in the Agency's letter of May 11, 1987.

At this time pursuant to 21 CFR 314.70 (b)(3), we are submitting a revision to our current package insert (No. 5828). The new package insert (No. 5830) has been created to delete the above-mentioned warning which had been added to insert No. 5828 (S-016).

The warning was had been added to insert No. 5828 because mixture), used in preparation of this component of the finished drug product (Vicodin tablets). has since informed us that they have revised their Type II Drug Master File for Acetaminophen to cover production of without the use of

For marketing and safety reasons, it is the intention of Knoll Pharmaceuticals to purchase and use only (i.e. no added in the preparation of Vicodin tablets. For this reason, the package insert has been revised (No. 5830) to delete the previously included warnings which no longer would be required under the provisions of 21 CFR 201.22.

In support of this supplemental application, we are providing the following:

1. Revised package insert No. 5830 - Four copies (1 archival, 3 review) of draft labeling highlighting the changes being made as noted below:

DESCRIPTION section - Deletion of as one of the inactive ingredients of Vicodin tablets

WARNING section - Deletion of the first paragraph headed,

2. Revised statement of the qualitative and quantitative composition of the drug deleting the listing of _____ as a component of _____
3. Copy of December 15, 1988 letter from _____ informing Knoll Pharmaceuticals that _____ DMF _____ for Acetaminophen was updated December 6, 1988 to include a new manufacturing facility for the production of _____ without the use of _____ as a _____
4. Copy of December 15, 1988 letter from _____ authorizing FDA to reference the December 6, 1988 update of DMF # _____ relative to Knoll Pharmaceuticals drug application for product containing Acetaminophen (i.e. Vicodin tablets).
5. Three months accelerated and six month room temperature stability data for Product Development Vicodin batch No. H48-150 (manufactured from _____ added _____). These data demonstrate satisfactory stability of the finished drug product. Additionally, the Agency is requested to refer to _____ DMF # _____ for data on the stability of _____ added _____

There have been no changes to either manufacturing procedures or component and finished product testing instructions as a result of the use of _____ added _____ The amount of _____ present in _____ was so small as to have had no effect upon manufacturing or testing procedures.

On the basis of the attached and referenced stability data, it is expected that there will be no adverse effect upon the stability of the finished drug product. Nonetheless, Knoll Pharmaceuticals commits to providing full term stability data on three initial production-size lots of Vicodin manufactured from _____ added _____ and to removing from distribution any lots which show unacceptable stability.

We additionally commit to the use of insert No. 5828 (warning) with any lots of Vicodin (with added _____, still in stock after approval of this supplement.

We trust that this supplemental application is in order and request its approval at your earliest convenience.

Sincerely,



for Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

FEL/amd

Knoll Pharmaceuticals



BASF Group

June 7, 1988

Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drug Evaluation & Research
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

NDA SUPPL AMENDMENT

5/016

FPL
Package Insert Labeling
(submitted 5/13/88)
Satisfactory
[SI]
10/27/88

Subject: VICODIN ANDA 88-058/S-016

Dear Dr. Seife:

Reference is made to your letter of June 3, 1988 which noted that the How Supplied section of the insert does not reflect the 3000 tablet package size.

The final printed package insert (#5828) submitted to the Agency on May 13, 1988 was based on changes requested in your letter of January 29, 1988 and clarified in a telephone conversation with Ms. Mille on February 16, 1988. The subsequent approval of the 3000 tablet package size on February 29, 1988 was surprising as it was based on labeling submitted on December 4, 1987 (#5810) which did not reflect the Agency's most recent requests.

Since the 3000 tablet package has not yet been introduced, we intend to use our current inventory of the insert #5828 which reflects your most up-to-date requests. Prior to introducing the 3000 tablet package we will revise the How Supplied section of insert #5828 and notify the Agency accordingly.

Sincerely,

Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

RWA/kg

RECEIVED

JUN 8 1988

GENERIC DRUGS

ANDA 88-058/S-016

Knoll Pharmaceuticals
Attention: Robert W. Ashworth
30 North Jefferson Road
Whippany, NJ 07981

JUN 3 1988

Dear Sir:

Reference is made to your supplemental new drug application submitted pursuant to Section 314.70 of the Regulations, dated June 10, 1987, regarding your abbreviated new drug application for VICODIN (Hydrocodone Bitartrate and Acetaminophen Tablets) 5 mg/500 mg.

Reference is also made to your communications dated August 6, 1987; September 17, 1987 and May 13, 1987 amending these supplements.

The supplemental application provides for revised package insert labeling to reflect a major revision of the text.

We have reviewed the final printed insert submitted and have the following comments:

The text of the proposed insert is satisfactory, however, we note that the 3000 tablet package size (approved February 29, 1988) is not reflected in the HOW SUPPLIED section of the insert. Please comment.

We anticipate a timely response so revised insert labeling can be put into use as soon as possible.

Please let us have your response promptly.

Sincerely yours,

ISI *on for* *62-88*
Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drug Evaluation and Research

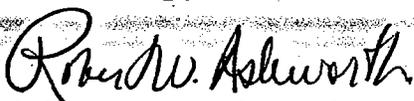
ISI *ISI* *6/2/88* *6/2/88*
cc:
HFN-238
TPoux/YMille/trc/6/2/88
2230m page 12
Review w/f

Marvin Seife, M.D.
May 13, 1988
Page Two

wording in our present insert is consistent with the Agency's labeling guidelines for Hydrocodone Bitartrate and Acetaminophen Tablets dated August 1987.

Twelve (12) copies of the final printed package insert for VICODIN Tablets, print number 5828, are enclosed.

Sincerely,



Robert W. Ashworth
Director
Regulatory Affairs

RWA/smp
enclosures

RECEIVED

MAY 19 1988

GENERIC DRUGS

ANDA 88-058/S-016

Knoll Pharmaceuticals
Attention: Robert W. Ashworth
30 North Jefferson Road
Whippany, New Jersey 07981

JAN 29 1988

Dear Sir:

Reference is made to your supplemental new drug application submitted pursuant to Section 314.70 of the Regulations, dated June 10, 1987, regarding your abbreviated new drug application for VICODIN (Hydrocodone Bitartrate and Acetaminophen Tablets) 5 mg/500 mg.

Reference is also made to your communications dated August 5, 1987 and September 17, 1987 amending this supplement.

The supplemental application provides for revised package insert labeling to reflect a major revision of the text.

We have reviewed the draft material submitted and have the following comments:

A. DESCRIPTION

1. _____

2. Final Paragraph, line 1 - non-opiate (hyphenated)

B. ADVERSE REACTIONS

Central Nervous System - Delete " _____ They already appear in the first paragraph in this section.

C. DRUG ABUSE AND DEPENDENCE

Divide paragraph 2 into two paragraphs. The third paragraph will begin with "Physical dependence".

D. Additional Comments



Revise the package insert labeling as directed above, then prepare and submit draft copy for our review and comment.

Please let us have your response promptly.

Sincerely yours,

47
ISI
1/28
1-29-88
Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drug Evaluation and Research

ISI
1/28/88
cc:

HFN-23f

TPoux/YMille/trc/1/28/88

2105m pages 14-15

Review w/f

APPEARS THIS WAY
ON ORIGINAL

Knoll Pharmaceuticals

*FPL
1. Container Labels - satisfactory
in package insert
2. Labeling - satisfactory
However, see number 11/17/88*



Org

December 4, 1987

BASF Group

Marvin Seife, M.D.
Director
Division of Generic Drugs (HFN-230)
Office of Drug Standards
Center for Drugs Evaluation and Research
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

ANDA SUPPL AMENDMENT

*5/013
014
015 - label + labeling
FPL*

Subject: ANDA 88-058/S-013, S-014, S-015
VICODIN® (5mg hydrocodone bitartrate and 500mg acetaminophen)

Dear Dr. Seife:

Reference is made to the Administration's letter of September 14, 1987, regarding our supplemental new drug application to provide for a plastic bottle containing 3000 VICODIN Tablets.

We offer the following in response to your comments:

1. Enclosed please find twelve (12) final printed container labels (print #5801) for the 128 fluid ounce plastic bottle. These labels are mounted three per page for three pages, plus three labels in an envelope.
2. As requested, we have added to the VICODIN insert the package size of 3000 (print #5810). Twelve (12) copies of the final printed insert are enclosed. This VICODIN insert is identical, except for the How Supplied section - Bottle of 3000, to print number 5809 which was submitted to the Administration for approval on 11/17/87.
3. The bottle of 3000 VICODIN Tablets is intended for repackaging by large drug chains. It will be available upon special request only. A 4 month expiration date is requested for this bottle.
4. The actual size of the ~~128~~ bottle used in the stability studies is 128 fluid ounces.

Please include this information in the Administration's files for ANDA 88-058, VICODIN (hydrocodone bitartrate and acetaminophen) Tablets, 5mg/500mg.

Sincerely,

Robert W. Ashworth

Robert W. Ashworth
Director, Regulatory Affairs

DEC 8 1987

JK/1s

ANDA: 88-058/S-013, S-014, S-015

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, NJ 07981

SEP 14 1987

Dear Dr. Ashworth:

Reference is made to your supplemental new drug applications submitted pursuant to Section 314.70 of the Regulations, dated May 8, 1987 regarding your abbreviated new drug application for VICODIN (Hydrocodone Bitartrate and Acetaminophen) Tablets, 5 mg/500 mg.

The supplemental applications provide for (1) S-013; Packaging of Vicodin tablets in a 128 fluid ounce plastic bottle (3000 tablets) with a cap, (2) 2-014; Expiration dating for the new package, and (3) S-015; Labeling for the new package.

We have reviewed the material submitted and have the following comments:

1. Please submit twelve (12) final printed container labels, for the 128 fluid ounce plastic bottles.
2. We note that the 3000 tablets package size will be available upon special request only. However, it is the policy of this Division that all marketed containers should be noted in the HOW SUPPLIED section of labeling. Therefore, we ask that this information be added to the insert.
3. With regard to the requested 24 month expiration date for this package size (3000 tablet). Please clarify the intended purpose of this package size. If it is for repackaging then a 4 month expiration date (the maximum amount of time allowed by the agency for repackaging without affecting the approved expiration date of a drug product) is more appropriate than the requested 24 month expiration date.
4. Please clarify the actual size of the _____ bottle used in the stability studies (page 20 of your correspondence dated May 8, 1987). Is it the 128 oz (3000 tablet) package size?

Please let us have your response promptly.

Sincerely yours, A I

GRAHAM JELKE, M.D.

Director

Division of Generic Drugs

Office of Drug Standards

Center for Drugs and Biologics

cc:

HFN-237

HFN-83

YMille/CChang/WV Lane/je/9-8-87

rwf

7562A/ pg 17

Knoll Pharmaceuticals



Orig

November 17, 1987

BASF Group

Marvin Seife, M.D.
Director, Division of Generic Drugs
Center for Drugs Evaluation and Research
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

NDA SUPPL AMENDMENT

5/016

DRAFT LABELING

Subject: **ANDA 88-058/S-016**
VICODIN Tablets Draft Package Insert (#5809)

*Package insert
Not satisfactory
Revise and
submit draft copy
11/27/88*

Dear Dr. Seife:

Pursuant to the Administration's letter of September 14, 1987, we are submitting revised package insert labeling for VICODIN (hydrocodone bitartrate and acetaminophen) Tablets, 5mg/500mg. This draft labeling has been prepared in accordance with the labeling guideline for hydrocodone bitartrate and acetaminophen tablets, dated 8/87.

Four copies of the draft package insert for VICODIN Tablets, print number 5809, are enclosed for your review. This draft is submitted as the mechanical form of printed labeling for ease of review.

Please include this information in the Administration's files for ANDA 88-058, VICODIN (5mg hydrocodone bitartrate and 500mg acetaminophen) Tablets.

Sincerely,

Robert W. Ashworth

Robert W. Ashworth
Director, Regulatory Affairs

RWA/ls

Enclosures

ANDA: 88-058/S-016

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, NJ 07981

SEP 14 1987

Dear Dr. Asworth:

Reference is made to your supplemental new drug application submitted pursuant to Section 314.70 of the Regulations, dated June 10, 1987, regarding your abbreviated new drug application for VICODIN (Hydrocodone Bitartrate and Acetaminophen) Tablets, 5 mg/500 mg.

Reference is also made to our letter dated May 11, 1987.

The supplemental application provides for revised package insert labeling to reflect 1) revision of the DOSAGE AND ADMINISTRATION section 2) the current phrasing of the — warning and 3) revision of the naloxone dosage information.

We have reviewed the draft material submitted and have the following comments:

1. WARNINGS

Respiratory Depression
Delete the final sentence.

2. PRECAUTIONS

Usage in Pregnancy

- A. This subsection consists of two sub-subsections:
Teratogenic Effects and Nonteratogenic Effects.
Do not denote the sub-subsection headings in the same manner as subsection headings. We suggest:

Usage in Pregnancy: (in bold type)
Teratogenic Effects: Pregnancy Category C...
Nonteratogenic Effects: Babies...

- B. — (rather than 1.0)

3. ADVERSE REACTIONS

Respiratory Depression
Delete sentences 4 and 5.

4. OVERDOSAGE

- A. As previously stated in our letter dated May 11, 1987, if you wish to include the dose for naloxone in the text of the insert it must be revised to reflect the dose currently reflected in the labeling of Narcan. We refer you to the package insert labeling for Darvon (Eli Lilly and Company) as a model for the type of information that should be included. Note that in addition to information concerning the treatment of overdose in adults there is also a subsection on the treatment of overdose in children.

Alternatively, the sentence in paragraph 1 under Hydrocodone, Treatment may read:

Therefore, an appropriate dose of naloxone hydrochloride (see package insert) should be administered, preferably by the intravenous route, and simultaneously with efforts at respiratory resuscitation.

B. Acetaminophen

- a. Revise paragraph 1 to read:

Signs and Symptoms: In acute acetaminophen overdose, dose-dependent potentially fatal hepatic necrosis is the most serious adverse effect. Renal tubular necrosis, hypoglycemic coma, and thrombocytopenia may also occur.

- b. Revise paragraph 5 to read:

The antidote, N-acetylcysteine, should be administered as early as possible, preferably within 16 hours of the overdose ingestion for optimal results, but in any case, within 24 hours. Following recovery, there are no residual, structural or functional hepatic abnormalities.

5. DOSAGE AND ADMINISTRATION

Paragraph 1, sentence 2 should read:

However it should be kept in mind that tolerance...

6. HOW SUPPLIED

Storage - We prefer the degrees Celcius appear before the degrees Fahrenheit.

7. The labeling guideline for this product was revised recently. Please revise your insert labeling so it is in accord with the guideline.

CONFIDENTIAL

Revise the package insert labeling as directed above, then prepare and submit draft copy for our review and comment.

Please let us have your response promptly.

Sincerely yours, *A*

ISI *9/14/87*
Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics

Enclosure: Labeling Guideline

cc: *ISI* *ISI*
HFN-237
Ymille/CChang/WMarname/je/9-8-87
rwf
7562A/ pg 14-16

ISI *9/10/87*

APPEARS THIS WAY
ON ORIGINAL

Knoll Pharmaceuticals



Drug

August 21, 1987

BASF Group

Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

NDA NO. _____ REF. NO. 017
NDA SUPPLEMENT Fac Add

**Subject: ANDA 88-058, VICODIN Tablets
Supplement - EXPEDITED REVIEW REQUESTED
Manufacturing Facility Expansion**

Dear Dr. Seife:

Pursuant to the provisions of 21 CFR 314.70(b)(2)(vi), we submit herewith a supplemental new drug application providing for the manufacture of VICODIN Tablets in an expanded tablet production facility directly adjoining our current operations at the Whippany, New Jersey site.

VICODIN Tablets manufactured in the newly expanded facility will be identical in every respect to those manufactured in our current facility under the subject ANDA. The tablets will be produced in the same batch size using the same procedures and equipment. In order to accomplish this, current production equipment will be relocated and requalified within the expanded facility. The specifications, test methods and packaging will remain unchanged from that provided for in the currently approved application.

We note that the information required for inclusion in this supplement was discussed with Dr. Kumkumian and representatives from your Division and the Office of Compliance on July 9, 1987. The information contained in this submission is outlined below:

- ◆ Description of manufacturing facility including site plan, floor plans and equipment descriptions and location
- ◆ Qualification procedures for utilities and equipment
- ◆ Currently approved manufacturing and controls information to facilitate review of the submission
- ◆ Stability commitment

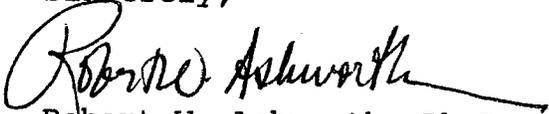
Marvin Seife, M.D.
August 21, 1987
Page Two

- ◆ Stability protocol
- ◆ Commitment to provide (post-approval) comparative dissolution data
- ◆ GMP certification

Since the relocation of manufacturing equipment will disrupt Knoll's pharmaceutical production capability until FDA approval is received, we trust that our request for expedited review will be granted. Equipment relocation will commence in September with all qualification work being completed in time for an anticipated compliance inspection in mid to late October. Based on currently achievable inventory levels, we are hoping for a November, 1987 approval in order to insure the continuity of drug product supply to the market place.

Should you have any comments or questions regarding this submission please contact me at (201) 428-4096.

Sincerely,



Robert W. Ashworth, Ph.D.
Director
Regulatory Affairs

RWA/kg

cc: Dr. Charles Kumkumian
Mr. William Marnane (desk copy)

RECEIVED

AUG 21 1987

GENERIC DRUGS

Knoll Pharmaceuticals



BASF Group

August 5, 1987

Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

NDA SUPPL AMENDMENT

5/016

DRAFT LABELING

Subject: ANDA 88-058, VICODIN Tablets
Supplement - EXPEDITED REVIEW REQUESTED

Dear Dr. Seife:

On June 10, 1987, we responded to the Administration's letter dated May 11, 1987 for ANDA 88-058/S-012. Since the information in the Administration letter was unclear concerning revising the Vicodin package insert at the time of next printing, we contacted the Division and spoke to Ms. Yana Mille on July 8, 1987. She clarified that the changes to the Dosage and Administration section should be made immediately and she requested that we make some additional changes to the Vicodin insert. Ms. Mille suggested we submit these changes as draft copy under 21 CFR 314.70(b).

Enclosed is a draft copy of Vicodin Insert, print number 5804. A comparison of the changes from our current Vicodin insert #5786 is included. We have also highlighted all the sections of the Vicodin package insert that were addressed in your May 11, 1987 letter to show that all changes have been incorporated.

Please retain this information in the Administration's files for ANDA 88-058, Vicodin (5mg hydrocodone bitartrate and 500mg acetaminophen) Tablets.

Sincerely,

Robert W. Ashworth, Ph.D.
Director
Regulatory Affairs

RECEIVED

AUG 11 1987

JK/mrg

GENERIC DRUGS

Knoll Pharmaceuticals



OK10

BASF Group

June 10, 1987

Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, Maryland 20857

NDA NO. _____ REF. NO. 5/10/86
~~NDA~~ SUPPL FOR Label Rev

DRAFT LABELING

*Not
Satisfactory
Revise and submit
draft
131
7/8/10/87*

Subject: ANDA 88-058/S-013 012

Dear Dr. Seife:

Reference is made to your letter of May 11, 1987 which requested revisions in the VICODIN package insert within 90 days. The requested revisions of the DOSAGE and ADMINISTRATION section, addition of the _____ warning and revision of the dose for naloxone are highlighted in the attached draft package inserts.

Regarding your comments relative to the composition of _____, we have confirmed that our currently listed inactive ingredients are correct. In the attached letter, Mr. Downes delineates the composition of _____ and requests that FDA contact him directly if there are any further questions.

Sincerely,

Robert W. Ashworth
Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

RWA/kg

Enclosure

RECEIVED

JUN 16 1987

GENERIC DRUGS

Knoll Pharmaceuticals



Orig

NDA NO. _____ REF. NO. 013
NDA SUPPL FOR Pkg Add.

May 8, 1987

BASF Group

NDA NO. _____ REF. NO. 014
NDA SUPPL FOR Exp Date
24M

Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, Maryland 20857

NDA NO. _____ REF. NO. 015
NDA SUPPL FOR Label
Draft Label satisfactory submit FPL
DRAFT LABELING

Subject: ANDA 88-058, Vicodin® Tablets
Packaging Supplement - Plastic Bottle of 3000 Tablets

Dear Dr. Seife:

As per the requirements of 21 CFR 314.70 (b)(2)(vii), we are submitting, in both archival and review copies, a supplemental new drug application to provide for the packaging of Vicodin (5 mg hydrocodone bitartrate and 500 mg acetaminophen) Tablets in a 128 fluid ounce plastic bottle with a cap. Approval for Vicodin Tablets in 160 cc and 625 cc plastic bottles with caps was granted on June 24, 1986 (supplements 006 and 007) with a two-year expiration date.

This new package size of 3000 tablets will be available upon special request only, therefore, according to the provisions of 21 CFR 201.57 (K)(2) it will not be included in the "How Supplied" section of our package insert.

The information in support of this package size can be found in the following attachments:

(A) Information Regarding Packaging

- 1) Testing Standard, _____ for _____ 128 fluid ounce, white, _____ bottle.
- 2) Technical data regarding _____
- 3) Testing Standard, _____ for _____ black, plastic, _____ cap.
- 4) Testing Standard, _____, for _____
- 5) Packaging log for Vicodin Tablets, Bottle of 3000.
- 6) Draft container label for bottle of 3000.

(B) Stability Information

- 1) Stability results for Vicodin stored in _____ plastic bottle at 3 months (accelerated) and up to 6 months (room temperature) to support a 2 year expiration date.
- 2) Testing Standard, _____, for stability analysis of Vicodin Tablets.
- 3) Stability Protocol, PD-003
- 4) Stability Commitment

(C) DMF Authorizations

- 1) Letter of authorization to refer to _____ DMF
- 2) Letter of authorization to refer to _____ DMF
- 3) Letter from _____ authorizing reference to DMF _____ for _____

(D) _____

- 1) Results of _____ testing on the 128 fl.oz. _____ bottle.

Any questions regarding this data should be forwarded to the undersigned.

Please include this information in the Administration's files for ANDA 88-058, Vicodin® (5 mg hydrocodone bitartrate and 500 mg acetaminophen) Tablets of _____ manufacture.

Sincerely,

Rosemarie Klein for

Robert W. Ashworth, Ph.D.
Director
Regulatory Affairs

JK:lf
Enclosures

RECEIVED
MAY 18 1987
GENERIC DRUGS

Knoll Pharmaceuticals

FPL
Unit-Dose
Blister Card
Satisfactory
2. Unit Dose Carton
for 4x25 Blister Cards
Satisfactory
4/29/87
BASF Group

Drug

March 23, 1987

Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, Maryland 20857

RECEIVED
5/011
FPL

**Subject: ANDA 88-058/S-011, Vicodin^R Tablets
Final Printed Labeling**

Dear Dr. Seife:

As requested in the Administration's letter of February 10, 1987, enclosed please find twelve copies (4 bound, 8 unbound) of the following final printed labeling:

- ◆ VICODIN Tablet Unit Dose Carton of 100 Tablets, (4 x 25 Blister Cards), print number 5784.
- ◆ VICODIN Tablet Unit Dose Top Card for 25 Tablets, print number 5783A.
- ◆ VICODIN Tablet Unit Dose Bottom Card for 25 Tablets, print number 5783B.

The changes requested by the Administration have been incorporated into this labeling. Please include this information in your files for ANDA 88-058, VICODIN (5mg hydrocodone bitartrate and 500mg acetaminophen) Tablets of _____ manufacture.

Sincerely,

Robert W. Ashworth

Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

JK/kg

Enclosure

RECEIVED

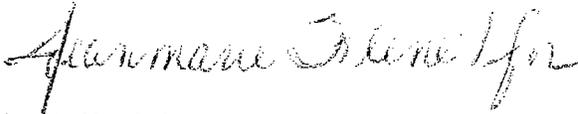
MAR 24 1987

GENERIC DRUGS

Marvin Seife, M.D.
February 17, 1987
Page 2

It is our understanding that the changes indicated do not require prior FDA approval. Please address any questions or comments to the undersigned.

Sincerely,



Robert W. Ashworth, Ph.D.
Director
Drug Regulatory Affairs

JK:lf
Enclosures

RECEIVED
FEB 25 1987
GENERIC DRUGS

**APPEARS THIS WAY
ON ORIGINAL**

ANDA 88-058/S-011

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippany, NJ 07981

FEB 10 1987

Dear Sir:

Reference is made to your supplemental new drug application submitted pursuant to Section 314.70 of the Regulations, dated November 10, 1986, regarding your abbreviated new drug application for VICODIN (Hydrocodone Bitartrate and acetaminophen) Tablets, 5 mg/500 mg.

Reference is also made to your communication dated January 7, 1987 amending this supplement.

The supplemental application provides for unit-dose packaging (4 sheets per carton, 25 tablets per sheet).

We have reviewed the draft material submitted and have the following comments:

Unit Dose Label: Not Satisfactory

A. Inside flap

1. Based on the precedent set in the USP use the word "and" rather than "
Hydrocodone bitartrate... and acetaminophen 500 mg
2. PERFORATIONS (rather than PERFORMATIONS)

B. Unit-dose blister

1. Vicodin tablet (rather than
It is our understanding that there is only one tablet per blister.
2. Delete the extra blank line beneath Hydrocodone Bitartrate. The "Warning" statement and Acetaminophen should both be repositioned.

C. We prefer: mg (rather than)

Carton: Satisfactory as of November 10, 1986 submission.

Page 2

Revise the unit dose label, then prepare and submit twelve final printed unit dose and carton labels.

Please let us have your response promptly.

Sincerely yours,

MS
Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics

For

2-10-87

HFN-238
HFN-230
M.Seife/K.Johnson/Y.Mille/st/2-3-87
3224A Pg 1-2
Review Waiting Firm

**APPEARS THIS WAY
ON ORIGINAL**

Knoll Pharmaceuticals



BASF Group

*Knoll Unit Dose Label Not satisfactory
Carton label - satisfactory
Note: be approved with S-011 must be approved with S-011
AS-11
07/9/87*

January 7, 1987

Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs & Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

AND SUPPLEMENTAL

S-011

DRAFT LABELING

Subject: ANDA 88-058/S-011 (Vicodin Unit Dose Labeling)

Dear Dr. Seife:

Reference is made to our pending supplemental application dated January 21, 1986, and to your letter of December 5, 1986. Enclosed for your review are four copies of the revised Vicodin Unit Dose Label. All of the comments in your December 5, 1986, letter have been incorporated.

Sincerely,

Robert W. Ashworth

Robert W. Ashworth, Ph.D.
Director, Drug Regulatory Affairs

RMc:lf
Enclosures *

RECEIVED

JAN 9 1987

Drug Regulatory Affairs

5/08
009
ANDA 88-058/S-011

Knoll Pharmaceuticals
Attention: Robert W. Ashworth, Ph.D.
30 North Jefferson Road
Whippanv, New Jersey 07981

DEC 5 1986

Dear Sir:

Reference is made to your supplemental new drug application submitted pursuant to Section 314.70 of the Regulations, dated November 10, 1986, regarding your abbreviated new drug application for VICODIN (Hydrocodone Bitartrate 5 mg/Acetaminophen 500 mg) Tablets.

The supplemental application provides for unit dose packaging (4 sheets per carton, 25 tablets per sheet).

We have reviewed the draft material submitted and have the following comments:

1. Unit Dose Label - Not Satisfactory

Each unit dose blister must provide the following information.

- A. Statement of contents controlled substance symbol and designation of dosage form

Hydrocodone bitartrate 5 mg CIII
(Warning: May be habit forming)
Acetaminophen 500 mg
Tab.

- B. Lot number and expiration date

- C. Corporate name

- D. You may include additional information if there is room.

2. Carton Label - Satisfactory

Please revise the unit dose blister label, then prepare and submit twelve final printed unit dose and carton labels. (You may submit draft copy if you prefer.)

Please let us have your response promptly.

Sincerely yours,

12/2/86
12/5/86
HFN-238

M. Seife/K. Johnson/Y. Mille/st/11-26-86

2917A Pg 8

Review Waiting Firm

Marvin Seife, M.D.

Director

Division of Generic Drugs

Office of Drug Standards

Center for Drugs and Biologics

Knoll Pharmaceuticals

*5-011
Draft unit dose
labels - Not satisfactory
Revise & submit FPL
Draft carton labels - satisfactory
Prepare and submit FPL
12/25/86
Reg*



knoll
BASF Group

November 10, 1986

NDA SUPPL AMENDMENT
5/008 **DRAFT LABELING**
009

Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs & Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

NDA NO. 88058 REF. NO. 5/011
NDA SUPPL FOR Lab 1 Rev

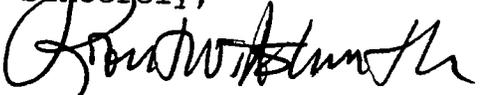
Subject: ANDA 88-058/S-008, S-009

DRAFT LABELING

Dear Dr. Seife:

Reference is made to our pending supplemental applications dated January 21, 1986 and to your letter of November 4, 1986. Attached for your review are four copies of draft labels for the new packaging format.

Sincerely,



Robert W. Ashworth, Ph.D.
Director
Drug Regulatory Affairs

RWA/kg

Attachment

RECEIVED

NOV 17 1986

GENERIC DRUGS

ANDA 88-058/S-008, S-009

Knoll Pharmaceutical Company
Attention: Robert W. Ashworth
30 North Jefferson Road
Whippany, NJ 07981

NOV 4 1986

Dear Mr. Ashworth:

Reference is made to your supplemental new drug applications submitted pursuant to Section 314.70 of the Regulations, dated January 21, 1986, regarding your abbreviated new drug application for Vicodin Tablets (5 mg Hydrocodone Bitartrate/500 mg Acetaminophen).

The supplemental applications provide for (1) S-008: Packaging of Vicodin Tablets in blister packages, and (2) S-009: Expiration dating for the new package.

We have reviewed the material submitted and have the following comments:

We note from the physical description of the new blister packaging [100 tablets supplied as (4 sheets per carton, 25 tablets per sheet)] that it differs significantly from the previous blister packaging [100 tablets supplied as (4 boxes per carton, 1 roll per box, 25 tablets per roll)]. Because of this difference, it is necessary that unit dose and carton labels for the new packaging format be submitted for our review. Please submit this information.

Please let us have your response promptly.

Sincerely yours,

ISI
Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics

FOR

11486

ISI
11/13/86

cc:
HFN-237
YMille/CChang/W. Larnane/tr/10/30/86
1121S
Review w/f

ISI
11/13/86

ISI *11-386*

Knoll Pharmaceuticals



BASF Group

September 15, 1986

NDA SUPPL AMENDMENT

S/008
009

Marvin Seife, M.D., Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, Maryland 20857

SUBJECT: NDA 88-058/S-008, S-009

Dear Dr. Seife:

Reference is made to our supplemental applications submitted January 21, 1986 regarding Vicodin Tablets and to your letter of March 19, 1986. The response to the comments detailed in your letter are provided herein.

- 1) A. Please provide a description of the physical characteristics of your blister package (size, dimensions, etc.).

Response: A sketch of the blister package with the pertinent dimensions is provided as Attachment I.



Marvin Seife, M.D.
September 15, 1986
Page Two

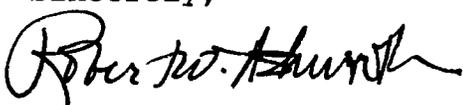
[]

2) A. Accelerated stability data at challenge conditions may be used to justify a maximum expiration date of 18 months. Please revise your request for a 2 year expiration date or provide extended room temperature data.

Response: Based on the stability data provided, we are requesting an expiration date of 18 months.

C. []

Sincerely,



Robert W. Ashworth, Ph.D.
Director, Regulatory Affairs

RWA/kg

Attachments

RECEIVED
SEP 23 1986
GENERIC DRUGS

Redacted 2

4/21/86
105

pages of trade secret and/or

confidential

commercial

information

NDA 88-058/S-008, S-009

MAR 19 1986

Knoll Pharmaceutical Company
Attention: Robert W. Ashworth
30 North Jefferson Road
Whippany, NJ. 07981

Dear Mr. Ashworth:

Reference is made to your supplemental new drug applications submitted pursuant to Section 314.70 of the Regulations, dated January 21, 1986, regarding your new drug application for Vicodin Tablets (5 mg Hydrocodone Bitartrate/500 mg Acetaminophen).

The supplemental applications provide for (1) S-008; Packaging of Vicodin tablets in blister packages, and (2) S-009; Expiration dating for the new package.

We have reviewed the material submitted and have the following comments:

1. It fails to contain an adequate description of materials used for packaging and adequate information with respect to the characteristics of, and test methods employed for the drug package to assure their suitability for the intended use. In this regard:
 - A. Please provide a description of the physical characteristics of your blister package (size, dimensions, etc.).

2.





Please let us have your response promptly.

Sincerely yours,

ISI

3/19/86

Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
Center for Drugs and Biologics

ISI
3/18/86

NWK-DO
HFN-237
CChang/W/harnane/tr/3/17/86
0625S
Review w/f

ISI 3/17/86

APPEARS THIS WAY
ON ORIGINAL

2/5/86
hr

Redacted 2

pages of trade secret and/or

confidential

commercial

information



KNOLL PHARMACEUTICAL COMPANY
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

Drug

January 21, 1986

NDA NO. 88058 REF. NO. 5/008
NDA SUPPL FOR Pkg add v/d

Marvin Seife, M.D., Director
Div. of Generic Drug Monographs
Office of the Associate Director for
Drug Monographs
National Center for Drugs & Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

NDA NO. _____ REF. NO. 5/009
NDA SUPPL-FOR Exp date

Subject: Vicodin Tablets NDA 88-058, Packaging Supplement

Dear Dr. Seife:

Under the provisions of 21 CFR 314.70(b) (2) (vii), Knoll Pharmaceuticals is submitting a supplemental application to NDA 88-058 to provide for the packaging of Vicodin Tablets in blister packages.

The tablets will be packaged using the following components:

Blister: _____

Backing: _____

The supportive information is provided in the designated attachments:

Attachment A - Stability results for Vicodin Tablets stored in blister packages at 3 months (accelerated) and up to 6 months (room temperature), to support a 2-year expiration date.

Attachment B - Testing Standard used for Stability Analysis.

Attachment C - Letters of authorization to refer to _____
DMF _____ DMF _____
_____ DMF _____ (Amendment 11) for the _____

Attachment D - Testing standards for packaging components.

In addition, Knoll Pharmaceuticals makes the following stability commitment:

RECEIVED

JAN 30 1986

GENERIC DRUGS

January 21, 1986

- The first three production lots of the product will be placed on stability. Yearly thereafter, at least one production batch will be added to the stability program.
- Results of the stability studies will be reported as they become available in periodic reports.
- We will withdraw from the market any batch found to fall outside the approved specifications for the drug.

Please address any comments/questions concerning this submission to the undersigned.

Sincerely,



Robert W. Ashworth, Ph.D.
Director
Drug Regulatory Affairs

RWA:js

Enclosure

Desk copy to: C. Chang

**APPEARS THIS WAY
ON ORIGINAL**



KNOLL PHARMACEUTICAL COMPANY
 30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

Orig

December 16, 1985

Marvin Seife, M.D., Director
 Div. of Generic Drug Monographs
 Office of the Associate Director for
 Drug Monographs
 National Center for Drugs & Biologics
 Food and Drug Administration
 5600 Fishers Lane
 Rockville, MD 20857

NDA NO. 88058 REF. NO. 3/006
 NDA SUPPL FOR Pkg Add 100's

NDA NO. _____ REF. NO. 5/007
 NDA SUPPL FOR Pkg Add 500's

Subject: Vicodin Tablets NDA 88-058, Packaging Supplement

Dear Dr. Seife:

Under the provisions of 21 CFR 314.70(b)(2)(vii), Knoll Pharmaceutical Company is submitting a supplemental application to NDA 88-058 to provide for the packaging of Vicodin Tablets in plastic bottles.

The tablets will be packaged as follows:

- a) 100 tablets in 160 cc white plastic _____ bottles using a _____ metal cap.
- b) 500 tablets in 625 cc white plastic _____ bottles using a _____ metal cap.

The supportive information is provided in the designated attachments:

Attachment A - Stability results for Vicodin Tablets stored in plastic bottles at 3 months (accelerated) and up to 12 months (room temperature), to support a 2-year expiration date.

Attachment B - Testing Standard used for Stability Analysis.

Attachment C - Letters of authorization to refer to _____
 DMF _____
 DMF _____

Attachment D - Testing standards for 160 cc and 625 cc white plastic bottles, _____ metal caps.

In addition, Knoll Pharmaceutical Company makes the following stability commitment:

Marvin Seife, M.D.

-2-

December 16, 1985

- The first three production lots of the product will be placed on stability. Yearly thereafter, at least one production batch will be added to the stability program.
- Results of the stability studies will be reported as they become available in periodic reports.
- We will withdraw from the market any batch found to fall outside the approved specifications for the drug.

*Stations
Research*
ca

Please address any comments/questions concerning this submission to the undersigned.

Sincerely,



Robert W. Ashworth, Ph.D.
Director
Drug Regulatory Affairs

RWA:js

APPEARS THIS WAY
ON ORIGINAL

RECEIVED

DEC 24 1985

GENERIC OFFICE

 **KNOLL PHARMACEUTICAL COMPANY**
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

Drug

October 23, 1984

Marvin Seife, M.D., Director
Div. of Generic Drug Monographs
Office of the Associate Director
of Drug Monographs (HFN-530)
National Center for Drugs and Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

SUPPL NEW CURRES
S/005

Subject: NDA Supplement, NDA 88-058
Vicodin Tablets, _____ Manufacture

Dear Dr. Seife:

This is in reference to our supplemental New Drug Application providing for a new tablet shape for Vicodin Tablets of _____ manufacture, NDA 88-058.

As discussed with Mr. C. Chang of your division, the modification does not involve a change in formulation and is being made solely to eliminate limited numbers of tablet breakage in bottles of 100's.

In light of the above, we wish to implement this change as soon as possible. Upon approval of this application, existing inventories of current Vicodin Tablets will be phased out and replaced by the new tablet shaped product.

Should you require any additional information regarding this application, please contact me at (201) 428-4014.

Sincerely,

A. C. Hanzas

A. C. Hanzas
Director
Drug Regulatory Affairs

ACH:mg

cc: Mr. C. Chang
Mr. J. Meyer

RECEIVED

OCT 24 1984

Marvin Seife, MD
October 9, 1984
Page Two

We request your earliest review and approval of this supplemental application.

Sincerely,



A. C. Hanzas
Director
Drug Regulatory Affairs

JK/kg

Enclosure

cc: Charles Y. Chang (desk copy)
Jack L. Meyer (cover letter only)

APPEARS THIS WAY
ON ORIGINAL

RECEIVED

OCT 11 1984

GENERIC DRUGS

Orig



KNOLL PHARMACEUTICAL COMPANY
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

July 17, 1984

Marvin Seife, MD
Director, Division of Generic Drugs (HFN-230)
Office of Drug Standards
National Center for Drugs and Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

NDA SUPPL AMENDMENT
S/001
002

Subject: Vicodin^R (hydrocodone bitartrate 5mg and acetaminophen
500mg) Tablets, NDA 88-058/S-001, S-002

Dear Dr. Seife:

We refer to our supplements S-001, S-002 dated July 29, 1983, regarding the
above referenced drug.

Reference is also made to your communications of January 31, 1984, February 24,
1984 and July 3, 1984 in which you requested submission of stability data at
challenge conditions prior to approval of the supplements.

Pursuant to your request, we have attached updated stability results for —
Vicodin Tablets (Lot #10760281R) at challenge conditions.

Based on the results of this testing, we request your approval of the —
procedure (S-001) and a two-year expiration date for the — tablets
(S-002).

Sincerely,

A.C. Hanzas

A. C. Hanzas
Director
Drug Regulatory Affairs

RRG:mg

attachment

RECEIVED

JUL 23 1984

GENERIC DRUGS

JUL 3 1984

NDA 88-058/S-001, S-002, S-003

Knoll Pharmaceutical Company
Attention: Mr. Agamemnon C. Hanzas
30 North Jefferson Road
Whippany, New Jersey 07981

Gentlemen:

Reference is made to your supplements dated July 29, 1983 and January 30, 1984 regarding your abbreviated new drug application submitted pursuant to Section 505(b) of the Federal Food, Drug, and Cosmetic Act for Vicodin (hydrocodone bitartrate 5 mg and acetaminophen 500 mg) Tablets.

Reference is also made to your communication dated May 7, 1984.

The supplemental applications provide for:

- S-001 a _____ procedure.
- S-002 two year expiration date for the _____ tablets.
- S-003 a major control procedure change for the dosage form.

We have completed the review of these supplemental applications and request the following additional information:

Submit stability data at challenge conditions for the _____ Vicodin Tablets (#10760281R) as requested per our letters of January 31, and February 24, 1984.

Please let us have your response promptly.

Sincerely yours,

ISI

FOR

2-3-84

cc:
 NWK-DO
 HFN-230
 HFN-233
 JMeyer/CChang/gp/7/2/84
 R/d init. by: MSeife/JMeyer

ISI, 7-2-84

Marvin Seife, M.D.
 Director
 Division of Generic Drugs
 Office of Drug Standards
 Center for Drugs and Biologies

REV W/F
3824A

ISI, 7/2/84



KNOLL PHARMACEUTICAL COMPANY
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

Drug

May 7, 1984

Marvin Seife, MD, Director
Division of Generic Drugs (HFN-230)
National Center for Drugs and Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857

NDA SUPPL AMENDMENT

5/003

Subject: VICODIN^R (hydrocodone bitartrate 5mg and acetaminophen 500mg) Tablets, _____ manufacture), NDA 88-058. Amendment to Supplemental Application No. S-003

Dear Dr. Seife:

We refer to our supplemental application S-003, dated January 30, 1984, providing for a revised testing standard procedure (Registry No. T-770) for Vicodin Tablets _____ manufacture), NDA 88-058.

Attached, in response to your letter request of February 24, 1984, is the validation data for the revised new testing standard.

This information applies, and is being submitted concurrently, to our supplemental application S-020 for Vicodin Tablets _____ manufacture) NDA 85-667.

Please address any comments or inquiries regarding the attached material to the undersigned.

Respectfully,

A. C. Hanzas

A. C. Hanzas
Director
Drug Regulatory Affairs

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MAY 11 1984

RRG:mg

Attachment

GENERIC DRUGS

NDA 88-058/S-001, S-002

Knoll Pharmaceutical Company
Attention: Mr. Agamemnon C. Hanzas
30 North Jefferson Road
Whippany, NJ 07981

Gentlemen:

Reference is made to your supplements dated July 29, 1983 regarding your abbreviated new drug application submitted pursuant to Section 505(b) of the Federal Food, Drug, and Cosmetic Act for Vicodin (hydrocodone bitartrate 5 mg and acetaminophen 500 mg) Tablets.

Reference is also made to your communication dated January 4, 1984.

The supplemental applications provide for a _____ procedure and two year expiration date for the _____ tablets.

We have completed the review of these supplemental applications and request the following additional information:

Submit stability data at challenge conditions for _____ Vicodin Tablets (10750281R) prior to approval.

Please let us have your response promptly.

Sincerely yours,

ISI
Marvin Seife, M.D.

Director

Division of Generic Drugs

Office of Drug Standards

National Center for Drugs and Biologics

cc: NWK-DO
HPN-530
JMeyer/CChan
R/D INITIAL JMeyer/MSeife
mm: 1/27/84
Review

ISI
ISI
1-30-84
2/30/84

W/F



KNOLL PHARMACEUTICAL COMPANY
30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

Drug

January 4, 1984

SUPPL NEW CORRES

Marvin Seife, MD
Director, Division of Generic Drug Monographs
Office of the Associate Director for
Drug Monographs
National Center for Drugs and Biologics
Food and Drug Administration
5600 Fishers Lane
Rockville, Maryland 20857

Subject: Vicodin^R (hydrocodone bitartrate 5mg and acetaminophen
500mg Tablets, NDA 88-058/S-001, S-002

Dear Dr. Seife:

We refer to your letter of December 30, 1983 regarding our pending supplemental applications S-001 and S-002 for the above referenced drug.

You request submission of stability data at challenge conditions for ~~_____~~ Vicodin Tablets (10760281R) when it becomes available. Results of stability testing under the requested conditions (37^o, 75% humidity) should become available in early April 1984 (three-month data) and will be submitted promptly.

Based on the stability data previously submitted and our commitments noted in our letter of December 8, 1983, we request that approval of the supplements be granted.

Respectfully,

A. C. Hanzas

A. C. Hanzas
Director
Drug Regulatory Affairs

RRG:mg

RECEIVED

JAN 12 1984

GENERIC DRUGS

053 50

NDA 88-058/S-001, S-002

Knoll Pharmaceutical Company
Attention: Mr. Agamemnon C. Hanzas
30 North Jefferson Road
Whippany, NJ 07981

Gentlemen:

Reference is made to your supplements dated July 29, 1983 regarding your abbreviated new drug application submitted pursuant to Section 505(b) of the Federal Food, Drug, and Cosmetic Act for Vicodin (hydrocodone bitartrate 5 mg and acetaminophen 500 mg) Tablets.

Reference is also made to your communication dated December 8, 1983.

The supplemental applications provide for a _____ procedure and two year expiration date for the _____ tablets.

We have completed the review of these supplemental applications and request the following additional information:

Submit stability data at challenge condition for _____ Vicodin Tablets (10760281R) when it becomes available.

Please let us have your response promptly.

Sincerely yours,

ISI *FOR 12-30-83*
Marvin Seife, M.D.
Director
Division of Generic Drugs
Office of Drug Standards
National Center for Drugs and Biologics

cc: NWK-DO
HFN-530
JMeyer/CChar
R/D INITIAL JMeyer/MSeife
mm: 12/25/83 (3928c)
Review W/F

ISI

12-29-83
ISI 12/29/83



KNOLL PHARMACEUTICAL COMPANY
 30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

Oreg

December 8, 1983

NDA SUPPL AMENDMENT

*S/001
002*

Marvin Seife, MD
 Director, Division of Generic Drug Monographs
 Office of the Associate Director for
 Drug Monographs
 National Center for Drugs and Biologics
 Food and Drug Administration
 5600 Fishers Lane
 Rockville, Maryland 20857

Subject: Vicodin^R (hydrocodone bitartrate 5mg and
 acetaminophen 500mg) Tablets, NDA 88-058/S-001, S-002

Dear Dr. Seife:

We refer to our supplemental new drug applications S-001 and S-002 for Vicodin^R Tablets, and to your Agency's letter of October 7, 1983 requesting additional information in their regard.

Following are our responses to your comments:

1. The rationale for the _____ procedure:

The _____ procedure is designed to _____ only _____ to the Knoll Pharmaceutical established testing standards, specifications and physical tablet characteristics. _____ will be performed after review and approval by the Quality Control Department.

2. Submit a commitment that you will notify FDA district office whenever a Vicodin _____ takes place.

Knoll Pharmaceutical Company will notify our FDA district office whenever a Vicodin _____ takes place.

3. It is recommended that stability studies be performed on _____ Vicodin Tablets (10760281R) at challenged conditions (high humidity in addition to elevated temperature).

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DE 6014 1983.....

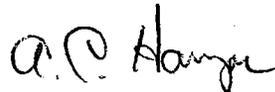
Marvin Seife, MD
December 8, 1983
Page Two

Vicodin tablets control number 10760281R have been placed on stability testing at 37°/75% relative humidity. Samples will be tested after one month and three months at these conditions. Results of this testing will be reported in the next annual periodic report for Vicodin Tablets.

We trust the above information adequately responds to your request.

Please address any comments or inquiries regarding this information to me.

Respectfully,



A. C. Hanzas
Director
Drug Regulatory Affairs

RRG:mg

APPEARS THIS WAY
ON ORIGINAL

OCT 7 1983

NDA 88-058/S-001, S-002

Knoll Pharmaceutical Company
Attention: Mr. Agamemnon C. Hanzas
30 North Jefferson Road
Whippany, NJ 07981

Gentlemen:

Reference is made to your supplements dated July 29, 1983 regarding your abbreviated new drug application submitted pursuant to Section 505(b) of the Federal Food, Drug, and Cosmetic Act for Vicodin (hydrocodone bitartrate 5 mg and acetaminophen 500 mg) Tablets.

The supplemental applications provide for a _____ procedure and a two year expiration date for the _____ tablets.

We have completed the review of these supplemental applications and request the following additional information:

1. The rationale for the _____ procedure.
2. Submit a commitment that you will notify FDA district office whenever the _____ takes place.
3. It is recommended that the stability studies be performed on _____ Vicodin Tablets (# 10750281R) at challenged conditions (high humidity in addition to elevated temperature).

Please let us have your response promptly.

Sincerely yours,

ISI on FOR 10-7-83
Marvin Seife, M.D.
Director
Division of Generic Drug Monographs
Office of the Associate Director for
Drug Monographs
Office of Drugs
National Center for Drugs & Biologics

cc:
NWK-DO
HFN-530
JLMeyer/CCha...
R/DinitJMeyer/MSeife
ft/cj1/10-5-83
rev w/

ISI - 10-6-83
ISI for J. L. Meyer
10-6-83



KNOLL PHARMACEUTICAL COMPANY
 30 NORTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981

Drug

CONTROLLED
 JUL 28 1983
 FEDERAL BUREAU OF INVESTIGATION

July 28, 1983 ~~DATE~~ NO. _____ REF. NO. 5/002

Marvin Seife, M.D.
 Director
 Division of Generic Drug Monographs
 Office of the Associate Director
 of Monographs
 Office of Drugs
 National Center for Drugs & Biologics
 Food and Drug Administration
 5600 Fishers Lane
 Rockville, Maryland 20857

NDA SUPPL FOR Generic Data
 NDA NO. 88-058 REF. NO. 5/001
 NDA SUPPL FOR Control Rev

5-002
2 yrs exp. date

Dear Dr. Seife:

Subject: VICODIN (hydrocodone bitartrate 5mg and acetaminophen 500mg) Tablets (_____ manufacture)
 NDA #88-058

Under the provision of 21 CFR, 314.8, we submit herewith a supplement to our abbreviated new drug application for Vicodin Tablets (_____ manufacture), NDA 88-058. This supplemental application provides for a _____ procedure and is set forth in Appendix A. Appendix B contains information relating to the stability of the _____ Vicodin Tablets including the proposed expiration date.

Your earliest review and consideration in this matter is greatly appreciated. Please include this in the Administration's files for Vicodin Tablets of _____ manufacture, NDA 88-058.

Sincerely,
A. C. Hanzas

A. C. Hanzas
 Director
 Drug Regulatory Affairs

JK/kg

Enclosure

RECEIVED

AUG 04 1983

GENERIC DRUGS