

CENTER FOR DRUG EVALUATION AND RESEARCH

Approval Package for:

Application Number **74769** _____

Trade Name **Morphine Sulfate Extended-Release Tablets**
100mg and 200mg

Generic Name **Morphine Sulfate Extended-Release Tablets**
100mg and 200mg

Sponsor **AB Generics L.P.** _____

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APPLICATION 74769

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	Included	Pending Completion	Not Prepared	Not Required
Approval Letter	X			
Tentative Approval Letter				
Approvable Letter				
Final Printed Labeling	X			
Medical Review(s)				
Chemistry Review(s)	X			
EA/FONSI				
Pharmacology Review(s)				
Statistical Review(s)				
Microbiology Review(s)				
Clinical Pharmacology				
Biopharmaceutics Review(s)				
Bioequivalence Review(s)	X			
Administrative Document(s)	X			
Correspondence	X			

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Application Number **74769**

APPROVAL LETTER

JUL 2 1998

AB Generics L.P.
Attention: Mary Ann Traut
100 Connecticut Avenue
Norwalk, CT 06850-3590
|||||

Dear Madam:

This is in reference to your abbreviated new drug application dated October 16, 1995, submitted pursuant to Section 505(j) of the Federal Food, Drug, and Cosmetic Act, for Morphine Sulfate Extended-release Tablets, 100 mg and 200 mg.

Reference is also made to your amendments dated March 11, May 8, July 10, and October 7, 1996; October 8, and December 3, 1997; and February 17, March 6, March 11, March 26, March 30, June 15, and June 26, 1998.

We have completed the review of this abbreviated application and have concluded that the drug is safe and effective for use as recommended in the submitted labeling. Accordingly, the application is approved. The Division of Bioequivalence has determined your Morphine Sulfate Extended-release Tablets, 100 mg and 200 mg, to be bioequivalent and, therefore, therapeutically equivalent to the listed drug (MS Contin® Tablets, 100 mg and 200 mg, respectively, of Purdue Frederick Co.). Your dissolution testing should be incorporated into the stability and quality control program using the same method proposed in your application.

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

Post-marketing reporting requirements for this abbreviated application are set forth in 21 CFR 314.80-81 and 314.98. The Office of Generic Drugs should be advised of any change in the marketing status of this drug.

We request that you submit, in duplicate, any proposed advertising or promotional copy which you intend to use in your initial advertising or promotional campaigns. Please submit all proposed materials in draft or mock-up form, not final print.

Submit both copies together with a copy of the proposed or final printed labeling to the Division of Drug Marketing, Advertising, and Communications (HFD-40). Please do not use Form FD-2253 (Transmittal of Advertisements and Promotional Labeling for Drugs for Human Use) for this initial submission.

We call your attention to 21 CFR 314.81(b)(3) which requires that materials for any subsequent advertising or promotional campaign be submitted to our Division of Drug Marketing, Advertising, and Communications (HFD-40) with a completed Form FD-2253 at the time of their initial use.

Sincerely yours,

/s/


Roger L. Williams, M.D.
Deputy Center Director for
Pharmaceutical Science
Center for Drug Evaluation and Research

2/2/98

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER 74769

FINAL PRINTED LABELING

MORPHINE SULFATE EXTENDED-RELEASE TABLETS 200 MG

CONTAINER LABEL

ARTWORK VERSION A5246

Usual dosage: Read accompanying prescribing literature. Swallow tablets whole. Do not crush or chew.
Dispense: Tight, light-resistant container.
Store at controlled room temperature 15-30°C (59-86°F)

U.S. Patent No. 4,368,310

ABG Laboratories, Inc., Tolson, NJ 07012 ASD-48 L37

NDC 60999-904-10

Morphine Sulfate
Extended-Release Tablets

200 mg

Warning: May be habit forming.
Caution: Federal law prohibits dispensing without prescription.

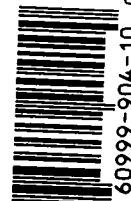
100 Tablets

ABG Laboratories, Inc.



Morphine Sulfate Extended-Release 200 mg Tablets
For use in opioid tolerant patients

2 1998



3

MORPHINE SULFATE EXTENDED-RELEASE TABLETS 100 MG

CONTAINER LABEL

ARTWORK VERSION A5245

Usual dosage: Read accompanying prescription directions. Swallow tablets whole. Do not crush or chew. Dispense: Tight, light-resistant container. Store at controlled room temperature 15°-30°C (59°-86°F). U.S. Patent No. 4,662,910 ABG Laboratories, Inc., Tolson, MD 07812

NDC 60999-903-10

Morphine Sulfate
Extended-Release Tablets

Warning—May be habit forming.
Caution: Federal law prohibits
dispensing without prescription.

100 Tablets



ABG Laboratories, Inc.

A5245 L97

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER **74769**

CHEMISTRY REVIEW(S)

1. CHEMISTRY REVIEW NO.#5

2. ANDA #74-769

3. NAME AND ADDRESS OF APPLICANT

AB Generics L.P.,
Attention: James H. Conover, Ph.D.
100 Connecticut Avenue,
Norwalk, CT 06856

4. LEGAL BASIS FOR SUBMISSION

The reference listed drug for this ANDA submission is MS Contin® (morphine sulfate controlled-release) Tablets, 100 mg and 200 mg; Holder:Purdue Frederick Company.

Marketing exclusivity for reference drug MS Contin® Tablets, 100 mg and 200 mg, the reference drug for this ANDA submission is not entitled to marketing exclusivity under section 505(J)(4)(D) of the Food, Drug and Cosmetic Act.

The patent information regarding Patent No. 4,235,870 (exp 11-25-95) and Patent No. 4,366,310 (exp 12-28-99) has not been submitted to FDA. A.B Generics L.P certifies that Patent No. 4,235,870 and Patent No. 4,366,310 will not be infringed by the manufacture, use or sale of Morphine Sulfate Controlled-Release 100 mg and 200 mg Tablets for which this application is submitted.

The subject product and its use in the treatment of pain in opioid tolerant patients was the subject of United States Patent No. 3,965,256 which expired June 22, 1993.

The applicant has been granted a patent license by the patent owner.

5. SUPPLEMENT(s)

NA

6. PROPRIETARY NAME

Morphine Sulfate Extended-Release Tablets

7. NONPROPRIETARY NAME

Morphine Sulfate

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

NA

9. AMENDMENTS AND OTHER DATES:

Firm:

October 16, 1995: Original submission

November 14, 1995: Amendment

February 16, 1996: Amendment

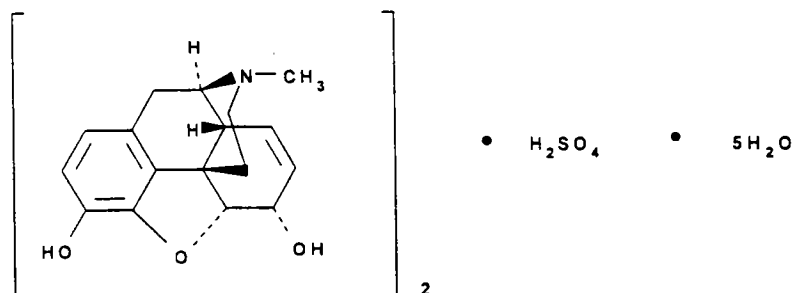
December 31, 1996: Amendment

FDA:
December 8, 1995: Acknowledgement and correspondence letter
July 31, 1996: Deficiency letter
October 21, 1997: Minor deficiency letter.
February 10, 1998 : Facsimile deficiencies
March 11, 1998: Telephone conversation

- (b)(4)(CC)

- IND STRUCTURE
Morphine Sulfate USP

$$(\text{C}_{17}\text{H}_{19}\text{NO}_3)_2 \cdot \text{H}_2\text{SO}_4 \cdot 5\text{H}_2\text{O}; \quad \text{M.W.} = 758.85$$



7,8-Didehydro-4,5α-epoxy-17-methylmorphinan-3,6α-diol sulfate
(2:1) (salt) pentahydrate. CAS [6211-15-0]

16. RECORDS AND REPORTS

Phone conversation between FDA and the firm regarding Patent Certification on 11-13-95.

Replacement page is being submitted to correct the Patent Certification Statement covering Patent Nos. 5,235,870 and 4,366,310 which were noted under a Paragraph IV Certification rather than Paragraph I Certification on November 14, 1995 amendment.

Control document#Bio 94-251; November 30, 1994.

Control document#P 94-043; September 30, 1994.

Control document#B 93-61; February 17, 1994.

July 1, 1993 letter from R.L. Williams to the firm, submitting an ANDA for MS Contin controlled-release tablets.

Telephone conversation on 3-11-98.

17. COMMENTS

The following deficiencies are found:
None

18. CONCLUSIONS AND RECOMMENDATIONS

This application can be approved. The approvable letter will be issued.

19. REVIEWER:

S.Basaran, Ph.D.

DATE COMPLETED:

4-6-98

BIOEQUIVALENCY COMMENTS

ANDA: 74-862 and [REDACTED]

APPLICANT: AB Generics

DRUG PRODUCT: Morphine Sulfate CR Tablets, 200 mg, 100 mg, 60 mg, 30 mg and 15 mg

The Division of Bioequivalence has completed its review and has no further questions at this time.

Please acknowledge that the following dissolution testing specifications have been incorporated into your stability and quality control programs:

For Morphine Sulfate CR Tablets, 200 mg, 100 mg

The dissolution testing should be conducted in 900 mL of simulated gastric fluid, at 37 °C using USP Apparatus 1 (basket) at 50 rpm. The test product should meet the following specifications:

	100 mg Tablets	200 mg Tablets
1 hr	(b)(4)(CC)	(b)(4)(CC)
3 hr	[REDACTED]	[REDACTED]
9 hr	[REDACTED]	[REDACTED]

For Morphine Sulfate CR Tablets, 60 mg, 30 and 15 mg

The dissolution testing should be conducted in 900 mL of water, at 37 °C using USP Apparatus 1 (basket) at 50 rpm. The test product should meet the following specifications:

1 hr	(b)(4)(CC)
2 hr	[REDACTED]
6 hr GT	[REDACTED]

Please note that the bioequivalency comments provided in this communication are preliminary. These comments are subject to revision after review of the entire application, upon consideration of the chemistry, manufacturing and controls, microbiology, labeling, or other scientific or regulatory issues. Please be advised that these reviews may result in the need for additional bioequivalency information and/or studies, or may result in a conclusion that the proposed formulation is not approvable.

Sincerely yours,

/s/ [REDACTED]

Dale Conner, Pharm. D.
Director, Division of Bioequivalence
Office of Generic Drugs
Center for Drug Evaluation and Research

CC: ANDA #74-769 and 74-862
ANDA DUPLICATE
DIVISION FILE
HFD-651/ Bio Secretary - Bio Drug File
HFD-658 / Reviewer Makary

Insert Path and File Name Here (X:NEW\FIRMS AB
Generics\74862sdw.298
Printed in final on / /98

Endorsements: (Final with Dates)
HFD-658 / Reviewer Makary [redacted] [redacted] 2/24/98
HFD-65 / Team Leader Nerurkar
HFD-617/ L. Sanchez or N. Chamberlin
HFD-650 / D. Conner [redacted] 2/25/98

BIOEQUIVALENCY - ACCEPTABLE

4. **STUDY AMENDMENT (STA)**

Strengths: 15, 30, 60 mg, 100 and 200 mg
Outcome: AC

Outcome Decisions:
AC - Acceptable
NC - No Action

WINBIO COMMENTS:

Morphine Sulfate CR Tablets
200 , 100, 60, 30 and 15 mg
ANDA #74-769 and 74-862
Reviewer: Moheb H. Makary
WP 74862SDW.298

AB Generics L.P.
Norwalk, CT
Submission Date:
February 17, 1998

Addendum to the November 28 and December 24 1997 Reviews

Dissolution testing data were reviewed and tentative specifications were recommended in the earlier reviews. This addendum describes revised dissolution specifications which the firm would like to use. The firm has indicated that these specifications are currently approved for the innovator product, MS Contin[®] Tablets manufactured by Purdue Frederick (AB Generics is a new generic company associated with the Purdue Frederick Company). Reviewer ascertained this information by scanning Excalibur.

The followings are the firm's proposed dissolution specifications and the FDA's tentative dissolution specifications:

ANDA #74-862 Morphine Sulfate CR Tablets, 15 mg, 30 mg and 60 mg

AB Generics L.P.	FDA's tentative specifications
1 hr (b)(4)(CC)	1 hr (b)(4)(CC)
2 hr	2 hr
6 hr GT	4 hr
	8 hr

ANDA #74-769 Morphine Sulfate CR Tablets, 200 mg and 100 mg

AB Generics L.P.	FDA's tentative specifications
100 mg 200 mg	100 mg and 200 mg Tablets
1 hr (b)(4)(CC)	1 hr (b)(4)(CC)
3 hr	. 2 hr
9 hr	3 hr
	4 hr
	8 hr

The firm's proposed dissolution specifications are acknowledged.

Recommendation:

The firm's proposed dissolution specifications for its Morphine Sulfate CR Tablets, 15 mg, 30 mg, 60 mg, 100 mg and 200 mg are acceptable.

The firm should be informed of the above recommendation.

/S/ [REDACTED]

Moheb H. Makary, Ph.D.
Review Branch III
Division of Bioequivalence

Date: 2/24/98

RD INITIALLED SNERURKAR
FT INITIALLED SNERURKAR

/S/ [REDACTED]

Date: 2/24/1998

Concur: [REDACTED]

/S/

Date: 2/25/98

Dale P. Conner, Pharm.D.
Director
Division of Bioequivalence

Mmakary/2-18-98, 2-24-98, 74-862 SDW.298

cc: ANDAs #74-862 and #74-769, original, HFD-658(Makary), Drug
File, Division File.