Approval Package for:

APPLICATION NUMBER:

19-697/S-004

Trade Name:

Ortho Tri-Cyclen 0.18mg/0.035mg,

0.215mg/0.035mg, 0.25mg/0.035mg

Generic Name:

norgestimate/ethinyl estradiol tablets

Sponsor:

Johnson RW

Approval Date:

12/28/1994

Indications:

For the prevention of pregnancy in women who elect

to use oral contraceptives as a method of

contraceptives.

APPLICATION NUMBER: 19-697/S-004

CONTENTS

Reviews / Information Included in this NDA Review.

Approval Letter	X
Approvable Letter	
Labeling	
Summary Review	
Officer/Employee List	
Office Director Memo	
Cross Discipline Team Leader Review	
Medical Review(s)	
Chemistry Review(s)	X
Environmental Assessment	
Pharmacology Review(s)	
Statistical Review(s)	
Microbiology Review(s)	
Clinical Pharmacology/Biopharmaceutics Review(s)	X
Risk Assessment and Risk Mitigation Review(s)	
Proprietary Name Review(s)	
Administrative/Correspondence Document(s)	X

APPLICATION NUMBER: 19-697/S-004

APPROVAL LETTER

R.W. Johnson Pharmaceutical Research Institute Attention: Ms. Isabel B. Drzeweicki Senior Director, Regulatory Affairs Route 202, P.O.Box 300 Raritan, N.J. 08869-0602

Dear Ms. Drzewiecki:

Please refer to your May 5, 1994, supplemental new drug application submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for ORTHO TRI-CYCLEN (norgestimate and ethinyl estradiol) Tablets.

This supplemental application provides for two new packaging facilities at the manufacturing site in Manati, Puerto Rico.

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 NDA set forth under 21 CFR 314.80 and 314.81.

If you have any questions, please contact Dr. Stockbridge at 310-443-3520.

Sincerely yours,

Solomon Sobel, M.D.

Director

Division of Metabolism and

SS 12-27-94

Endocrine Drug Products (HFD-510)

Center for Drug Evaluation and Research

cc:

Arch NDA HFD-510 DISTRICT OFFICE HFD-426\ADorantes HFD-80

HFD-510\RBennett\YChiu\MRhee\KRaheja\EGalliers

HFD-510\LStockbridge/12.19.94\N19697ap.S04 @ 12-22-99

Concurrences: MRhee 12.19/YChiu 12.20/EGalliers 12.21.94

SUPPLEMENT APPROVAL

APPLICATION NUMBER: 19-697/S-004

CHEMISTRY REVIEW(S)

CHEMIST'S REVIEW

1. Organization DMEDP HFD-510

2. NDA Number 19-697

DEC 13 1994

3. Name amd Address of Applicant

The R.W. Johnson Pharmaceutical Research Institute Route 202, P.O. Box 300 Raritan, NJ 08869-0602 908-704-4038

4. Supplement

S-004 5-5-94

ORIGINAL

5. Name of Drug

Ortho-TriCyclen

6. Nonproprietary Name

Norgestimate/EE tablets

7. Supplement Provides For

8. Amendment

Two new packaging facilities at Manati in Puerto Rico

9. Pharmacological Category

Oral contraceptive

10. How Dispensed

RX

11. Related

IND/NDA/DMF NDA 19-653

12. Dosage form

Tablets for oral administration

13. Potency

180/35, 215/35, 250mcg/35mcg (norgestimate/EE)

14. Chemical Name and Structure

Norgestimate: 18,19-dinor-17-pregn-4-en-20-yn-3-on,17-(acetyloxy)-13-ethyl-,

oxime, (17a)-(+)-

Empirical Formula: C₂₃H₃₁NO₃

MW: 369.50

Ethinyl Estradiol: 19-nor-17-a-pregna-1,3,5-(10)-trien-20-yne-3,17-diol

Empirical Formula: C₂₀H₂₄O₂

MW: 296.41

15. Comments

This supplement was submitted for a new packaging site, Johnson & Johnson Pharmco Inc., Manatii, Puerto Rico. This firm was originally named as Ortho Pharmaceuticals, Inc. and later renamed as above on 4-21-94. It has two facilities (it is called as original and new). The original facility is involved in manufacturing the Ortho Tri-Cyclen tablets which has been packaged at the facility in Raritan. (This original facility is also involved in manufacturing and packaging Ortho-Cyclen tablets). Now the firm proposes to package the Ortho Tri-Cyclen tablets at the original and new facilities (the new facility also packages Ortho Cyclen tablets). (cont'd)

16. Conclusion and Recommendation

EER was rated acceptable on 5-20-94 and updated on 12-5-94. The issues on the new dissolution method will be dealt through the pending supplement (S-002). Therefore, from the chemistry point of view, this supplement is approvable. Issue an approval letter.

17. Name

Moo-Jhong Rhee, Ph.D.

Reviewer's Signature

Date

12-13-94

Distribution

<u>Original Jacket</u>

Reviewer

Division File

R/D initialed by

Redacted page(s)

of trade secret and/or

confidential commercial

information from

Chemistry Review 19-697/S-004

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

ESTABLISHMENT EVALUATION REQUEST

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APPLICATION AND SUPPLEMENT NUMBER		DIVISION DM & DD	MAIL CODE HFD- 5/0		
APPLICATION AND SUPPLEMENT NUMBER 19-697 S-604		· · · · · · · · · · · · · · · · · · ·			
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DOSAGE AND STRENGTH / SOM / 35Mg 210Mg/	7				
PROFILE CLASS TCM	PRIORITY CLASSI	FICATION (See SMG CDI	ER-4820.3)		
APPLICANT'S NAME R. W. Johnson Pharmacentical Research Institute					
ADDRESS Route 202, P.O. B	0x 300				
Raritan, New Jersey 08869					
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DEPARTMENT OF HEALTH AND HUMAN SERVICES Public Health Service FOOD AND DRUG ADMINISTRATION



ESTABLISHMENT EVALUATION REQUEST

PHONE NO.

DATE

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☐ Follow-Up

□ Original

REQUESTOR'S NAME

APPLICATION AND SUPPLEMENT NUMBER REQUESTOR'S NAME MOD-Jhong Rhee, gh.	D. DIVISION DME	OP	MAIL COBE // HFD- 5-10			
19-697, 5-004	ESTABLISHED NAME	User Jee P	in Date 11/6/94			
BRAND NAME	ESTABLISHED NAME	1-6				
Ortho Tri-Cyclen	Norgesti	mate/Ett	ingl Estradiol			
DOSAGE AND STRENGTH 180M / 75M 210/35	5, 250/35/	ng	STERILE NO			
PROFILE CLASS TCM STERILE PRIORITY CLASSIFICATION (See SMG CDER-4820.3)						
APPLICANT'S NAME R.W. Johnson Pharmacu	tical Resea	rch Insti	'tute			
Koute 202, P.O. Box 300						
COMMENTS Ravitan, New Jersey	08869					
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APPLICATION NUMBER: 19-697/S-004

CLINICAL PHARMACOLOGY AND BIOPHARMACEUTICS REVIEW(S)

DEC 14 1994

NDA 19-697

SUBMISSION DATE: May 5, 1994

ORTHO TRI-CYCLEN® Tablets
Norgestimate/Ethinyl Estradiol
The R.W. Johnson Pharmaceutical Res. Inst.
Div of Ortho Pharmaceutical Corp.
Raritan, New Jersey

ORIGINAL

REVIEWER: Angelica Dorantes, Ph.D.

TYPE OF SUBMISSION: Dissolution Data to Support Additional Packing Site

Code: 3 S

SYNOPSIS:

The sponsor is submitting a supplement to NDA 19-697 for ORTHO TRI-CYCLEN® Tablets (norgestimate/ethinyl estradiol). In accordance with the provisions of 21CFR 314.70(b)(2)(vi), the sponsor is submitting this supplemental application to allow Johnson & Johnson Pharmaco (P.R.) Inc., Manati, Puerto Rico as an additional site for the packaging of ORTHO TRI-CYCLEN® Tablets.

In support of this supplement, the sponsor included Chemistry, Manufacturing, and Control information which includes 6-month stability data on three batches each of the 180 μ g norgestimate/35 μ g EE, and 215 μ g norgestimate/35 μ g EE strength tablets. The 250 μ g norgestimate/35 μ g strength tablets are currently packed at Puerto Rico as well as the monophasic product ORTHO CYCLEN®

On November 22, 1994, the Division of Biopharmaceutics was consulted by Dr. Moo-Jhong Rhe, reviewing chemist from HFD-510, regarding the comparative dissolution information included in the Supplement to 19-697 dated May 5, 1994. In these studies, dissolution testing was conducted to compare the dissolution methods on ORTHO TRI-CYCLEN® Tablets using the original hydro-alcoholic method (PD 1818) and the new surfactant method (DM 91-020). The main objective was to demonstrate the equivalence of the dissolution methods.

Dissolution profiles were generated for the 180/35 (SRN 7473, 5°C 180 days), 215/35 (SRN 7440, 5°C 180 days) and 250/35 (Lot 130544, initials from production) tablets using both methods. Also, stability samples of SRN 7473 and SRN 7440 (30°C, 160 days) were tested with both methods with sampling at 30 minutes. The methods are summarized below:

PD 1818: Old Method

DM 91-020: New Method

Apparatus:

Apparatus 1, 125 rpm

Apparatus II, 75 rpm

Dissolution Medium:

13% isopropyl alcohol in water, 900 mL

0.0255 Tween 20, 600 mL

The dissolution profiles of ORTHO TRI-CYCLEN® (180/35, 215/35 and 250/35) Tablets are presented in Figures 1 to 3. The results indicate that the two dissolution methods produce comparable dissolution profiles for norgestimate and EE. Figure 4 presents the results from the stability samples (180/35 and 215/35). For the stability samples, both methods produce comparable results at 30 minutes. Figures 1 to 4 and individual dissolution data are included in Attachment I.

In addition, it should be noted that on August 23, 1994 the sponsor submitted a supplement to NDA 19-697 for ORTHO-TRI-CYCLEN® Tablets. In that supplement reference was made to a previous supplemental application dated July 26, 1993, which provided information for a new non-alcoholic based dissolution method (DM 91-020), and to an FDA not-approvable letter dated May 6, 1994, which listed the deficiencies for the July 26, 1993 supplemental application. In the August 23, 1994 supplement to NDA 19-697, the sponsor included their responses to the Biopharm Deficiencies outlined in the May 6, 1994 Agency's letter. Based upon the review of the dissolution data submitted in the August 23, 1994 supplement, the Division of Biopharmaceutics accepted the sponsor's proposed tentative specification of Q = 80% at 20 minutes for both norgestimate and ethinyl estradiol (USP Apparatus II; paddle, 75 rpm, 600 mL of 0.025% Tween 20 in water) as an interim specification. With respect to the proposed paddle speed, the Division of Biopharmaceutics felt that 50 rpm would be a more appropriate speed, than 75 rpm.

RECOMMENDATION:

Based upon the review of the dissolution data submitted in the supplement to NDA 19-697 filed on May 5, 1994 for ORTHO TRI-CYCLEN® Tablets, the Division of Biopharmaceutics believes that the comparative dissolution results are appropriate, however, the recommendation given for NDA 19-697 submitted on August 23, 1994 also applies to this Therefore, this submission is acceptable with the understanding that the submission. newly proposed dissolution method is accepted on an interim basis. As was indicated for the supplement to NDA 19-697 that was submitted on August 23, 1994, before a final dissolution method and specification are accepted, the Division of Biopharmaceutics would like to see additional dissolution data accrued for one year using the proposed dissolution method; USP Apparatus II (paddle), 600 mL of 0.025% Tween 20 in water, i) at 50 and 75 rpm and ii) at 15 and 20 minutes sampling times.

Please convey the Recommendation as appropriate to the sponsor.

NOTE: Attachment I is been retained in the Division of Biopharmaceutics and can be obtained upon request.

angelica Dosantes

Angelica Dorantes, Ph.D.

Pharmacokinetic Evaluation Branch

RD initialed by John Hunt.

RD initialed by John Hunt.

cc: NDA 19-697, HFD-510, HFD-427 (Dorantes), Drug, Chron, and HFD-19 (FOI)

APPLICATION NUMBER: 19-697/S-004

ADMINISTRATIVE and CORRESPONDENCE DOCUMENTS



TO SECTION OF THE PARTY OF THE

Food and Drug Administration Rockville MD 20857

Date MAY | 3 | 1994

NDA No. 19-697

R.W. Johnson Pharmaceutical Research Institute Route 202, P.O. Box 300, Raritan, New Jersey 08869-0602

Attention: Isabel B. Drezewiecki

Dear Sir/Madam:

We acknowledge receipt of your supplemental application for the following:

Name of Drug: Ortho Tri-Cyclen

NDA Number: 19-697

Supplement Number: S-004

Date of Supplement: May 5, 1994

Date of Receipt: May 10, 1994

Unless we find the application not acceptable for filing, the filing date will be 60 days from the receipt date above.

All communications concerning this NDA should be addressed as follows:

Center for Drug Evaluation and Research Attention: Document Control Room 14B-03 5600 Fishers Lane, HFD-510 Rockville, MD 20857

Sincerely yours,

Supervisory Consumer Safety Officer

Division of Metabolism and Endocrine Drug Products

Center for Drug Evaluation and Research



ORIGINAL

THE R.W. JOHNSON

PHARMACEUTICAL RESEARCH INSTITUTE

ROUTE 202, P.O. BOX 300, RARITAN, NEW JERSEY 08869-0602

NDA NO. 1949 REF. NO. OO W. NDA SUPPL FOR SC.

MAY 0 5 1994

Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Review II, HFD #510
ATTN: DOCUMENT CONTROL ROOM #14B-03
5600 Fishers Lane

SUPPLEMENT

NDA 19-697
ORTHO TRI-CYCLEN® Tablets (norgestimate/ethinyl estradiol)

Dear Sir/Madam:

Rockville, Maryland 20857-1706

Reference is made to our approved New Drug Application 19-697 for ORTHO TRI-CYCLEN® Tablets. In accordance with the provisions of 21 CFR 314.70(b)(2)(vi), we are submitting a supplemental application to provide for Johnson & Johnson Pharmco (P.R.) Inc., Manati, Puerto Rico, as an additional site for the packaging of ORTHO TRI-CYCLEN Tablets. This facility is currently approved for the manufacture and testing of ORTHO TRI-CYCLEN Tablets. The packaging process and equipment train employed by Johnson & Johnson Pharmco (P.R.) Inc., are equivalent to those of our current approved packaging site, Ortho Pharmaceutical Corporation in Raritan, New Jersey.

In support of this supplement, we have appended Chemistry, Manufacturing and Control Information which includes 6-month stability data on three batches each of the 180 μg norgestimate/35 μg EE, and 215 μg norgestimate/35 μg EE strength tablets. The 250 μg norgestimate/35 μg EE strength tablets which represent the "high" dose of the triphasic regimen are currently packaged at Johnson & Johnson Pharmco (P.R.) Inc. as our monophasic product ORTHO-CYCLEN.

Please be advised that Johnson & Johnson Pharmco (P.R.) Inc. was previously named Ortho Pharmaceuticals, Inc. The renaming of this facility was reported to the Agency on April 21, 1994. The location, functions, size and staff of this facility remain unchanged. Because the supporting documentation contained in this supplement was generated and completed prior to this recent name change, the former name Ortho Pharmaceuticals, Inc. has been used throughout for consistency.

CSO ACTION:

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17WH

A field copy of this submission is being forwarded directly to the FDA Newark District Office. We certify that the field copy is a true copy of the information contained in the archival and review copies of this supplemental application.

If you have any questions, please contact me at 908 704-4547.

Sincerely,

The R. W. Johnson Pharmaceutical Research Institute

Isabel B. Drzewiecki Senior Director

Regulatory Affairs

\srlb Enclosures

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