Approval Package for:

Application Number: 019810/S38/S50/S56

Trade Name: PRILOSEC DELAYED-RELEASE

CAPSULES

Generic Name: OMEPRAZOLE

Sponsor: ASTRA MERCK, INC.

Approval Date: 1/15/98, 1/7/98 and 7/10/98

Indication(s): GASTROGESOPHAGEAL REFLUX DISEASE

APPLICATION: 019810/S38/S50/S56

CONTENTS

	Included	Pending	Not	Not
		Completion	Prepared	Required
Approval Letter	X			
Tenative Approval Letter				X
Approvable Letter	1			X
Final Printed Labeling		X		
Medical Review(s)				X
Chemistry Review(s)	X			
EA/FONSI				X
Pharmacology Review(s)				X
Statistical Review(s)	X			
Microbiology Review(s)				X
Clinical Pharmacology				X
Biopharmaceutics Review(s)				
Bioequivalence Review(s)				X
Administrative Document(s)/	X			
Correspondence				

Application Number: 019810/S38/S50/S56

APPROVAL LETTER

Astra Merck Inc. Attention: Gary P. Horowitz, Ph.D. 725 Chesterbrook Blvd. Wayne, PA 19087-5677

JAN 1 5 1998

Dear Dr. Horowitz:

Please refer to your supplemental new drug application dated February 26, 1996, received February 26, 1996, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Prilosec (omeprazole) Delayed-Release Capsules.

We acknowledge receipt of your submissions dated July 12, August 14, October 10, November 11, and December 3 and 18, 1996 and June 26 and November 21, 1997.

The supplemental application provides for a 40 mg dosage strength.

We have completed the review of this supplemental application, including the submitted draft labeling, and have concluded that adequate information has been presented to demonstrate that the drug product is safe and effective for use as recommended in the labeling in the submission dated November 11, 1996. Accordingly, the supplemental application is approved, effective on the date of this letter, with an 18 month expiration date for each package type (Hospital Unit Dose Blister, 30, 100, and 1000 count bottles, and 7 count physician's sample) and with intermediate hold times of 30 days for ________ 60 days for _______ and 90 days for _______ as proposed in your June 26, 1997 submission. Please be advised that the first three batches of 40 mg capsules in each packaging configuration must be placed on stability and the data reported in the annual report.

Please submit 20 copies of the final printed labeling (FPL) as soon as it is available, in no case more than 30 days after it is printed. Please individually mount ten of the copies on heavy-weight paper or similar material. For administrative purposes, this submission should be designated "FINAL PRINTED LABELING" for approved supplemental NDA 19-810/S-038. Approval of this submission by FDA is not required before the labeling is used.

The FPL must be identical in content to the labeling submitted on November 11, 1996. In addition, all previous revisions as reflected in the most recently approved package insert must be included.

Should additional information relating to the safety and effectiveness of the drug become available, revision of that labeling may be required.

NDA 19-810 Page 2

In addition, please submit three copies of the introductory promotional material that you propose to use for this product. All proposed materials should be submitted in draft or mock-up form, not final print. Please submit one copy to this Division and two copies of both the promotional material and the package insert directly to:

Food and Drug Administration
Division of Drug Marketing, Advertising and Communications,
HFD-40
5600 Fishers Lane
Rockville, Maryland 20857

Should a letter communicating important information about this drug product (i.e., a "Dear Doctor" letter) be issued to physicians and others responsible for patient care, we request that you submit a copy of the letter to this NDA and a copy to the following address:

MEDWATCH, HF-2 FDA 5600 Fishers Lane Rockville, MD 20852-9787

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 Maria R. Walsh, M.S., Project Manager, at (301) 443-0487.

Sincerely yours,

131 1-14-98

APPEARS THIS WAY ON ORIGINAL

Lilia Talarico, M.D.

Director

Division of Gastrointestinal and Coagulation

Drug Products

Office of Drug Evaluation III

Center for Drug Evaluation and Research

cc:

Original NDA 19-810/S-038

HFD-180/Div. files

HFD-180/CSO/M.Walsh

HFD-180/A.Shaw

E.Duffy

DISTRICT OFFICE

HF-2/Medwatch (with labeling)

HFD-92/DDM-DIAB (with labeling)

HFD-40/DDMAC (with labeling)

HFD-613/OGD (with labeling)

HFI-20/Press Office (with labeling)

Drafted by: M.Walsh 1/13/98

Initialed by: A.Shaw 1/13/98

E.Duffy 1/13/98

L. Talarico 1/13/98

revised: M.Walsh 1/14/98

final: M.Walsh 1/14/98

filename: 19810S38.AP

APPROVAL (AP)

APPEARS THIS WAY ON ORIGINAL

JAN - 7 1998

Astra Merck Inc. Attention: Gary P. Horowitz, Ph.D. 725 Chesterbrook Blvd. Wayne, PA 19087-5677

Dear Dr. Horowitz:

Please refer to your supplemental new drug application dated April 28, 1997, received-April 30, 1997, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Prilosec^(R) (omeprazole) Delayed-Release Capsules.

We acknowledge receipt of your submissions dated October 30 and December 2, 1997.

The supplemental application provides for packaging the physician's samples in a new alternate secondary package_____

We have completed the review of this supplemental application and it is approved. Your proposal for revising the patient education material, submitted on December 2, 1997 in response to our recommendation, which was communicated to you in a November 25, 1997 telephone conversation between you and Ms. Maria Walsh of this Divison, is acceptable. Specifically, the revision should be made as follows.

From: "While some foods and activities may aggravate GERD symptoms - and are best avoided - changes in diet and lifestyle are not enough to provide adequate symptom relief."

To: "While some foods and activities may aggravate GERD symptoms - and are best avoided - changes in diet and lifestyle may not be enough to provide adequate symptom relief."

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 Maria R. Walsh, M.S., Project Manager, at (301) 443-0487.

NDA 19-810/S-050 Page 2

Sincerely yours,

13/1-6-98

THIS WAY

Lilia Talarico, M.D.

Director

Division of Gastrointestinal and Coagulation Drug

Products

Office of Drug Evaluation III

cc:

Original NDA 19-810/S-050 HFD-180/Div. Files HFD-180/M.Walsh HFD-180/A.Shaw E.Duffy HFD-820/ONDC Division Director HFD-92/DDM-DIAB DISTRICT OFFICE

Drafted by: M.Walsh 12/16/97 Initialed by: A.Shaw 12/17/97 E.Duffy 12/30/97

L.Talarico 1/5/98

final: M.Walsh 1/5/98 filename: 19810S50.AP

APPROVAL (AP)

THIS THIS WAY

Center for Drug Evaluation and Research

JUL 10 1998

Astra Merck Inc. Attention: Gary P. Horowitz, Ph.D. 725 Chesterbrook Blvd. Wayne, PA 19087-5677

Dear Dr. Horowitz:

Please refer to your supplemental new drug application dated May 28, 1998, received May 29, 1998, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Prilosec (omeprazole) Delayed-Release Capsules

The user fee goal date for this application is November 29, 1998.

This supplemental new drug application provides for an alternate lidding stock for the Hospital Unit Dose (HUD) package for the 10 mg and 20 mg capsules.

We have completed the review of this supplemental application and it is approved with an expiration date of six months

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, contact Maria R. Walsh, M.S., Project Manager, at (301) 443-0487.

Sincerely,

78/

Eric P. Duffy, Ph.D.

Chemistry Team Leader for the

Division of Gastrointestinal and Coagulation Drug Products, (HFD-180)

DNDC II, Office of New Drug Chemistry Center for Drug Evaluation and Research NDA 19-810/S-056 Page 2

cc:

Archival NDA 19-810 HFD-180/Div. Files HFD-180/M.Walsh HFD-95/DDMS (with labeling) HFD-820/DNDC Division Director DISTRICT OFFICE

Drafted by: M.Walsh 7/8/98 Initialed by: E.Duffy 7/8/98 final: M.Walsh 7/8/98

filename: 19810S56807.ap.doc

APPROVAL (AP)

APPLICATION NUMBER: 019810/S38/S50/S56

CHEMISTRY REVIEW(S)

CHEMIST'S REVIEW 3 1. Organization: HFD-180			2. NDA Ni	<u>mber:</u> 19-810	
Astra Merck Inc. 725 Chesterbrook Blvd.				mber: JAN 13 199 pplement(s)	
I #	7. <u>Nonpropriet</u> Omeprazole	cary Name:	Numbers SCF-038	Dates Feb 26, 1996	
8. <u>Supplement Provides for:</u> a new dosage strength, 40 mg capsule.			9. Amendr (Reports BC Jul 7, BC Oct 10 BC June 2 C August	9. Amendments and Other (Reports, etc.) Dates: BC Jul 7, 1996 BC Oct 10, 1996 BC June 26, 1997 C August 27, 1997 AC Nov 21, 1997	
10. <u>Pharmacological (</u> H+/K+ ATPase enzyme in (H+ pump inhibitor)		11. <u>How Dispensed:</u> RX_X OTC	12. <u>Relat</u> IND/NDA/		
13. <u>Dosage Form:</u> capsule		14. <u>Potency:</u> 10 mg, 20 mg and 40	D mg		
15. Chemical Name and Structure: 5-methoxy-2-[((4-methoxy-3, 5-dimethyl-2- pyridinyl)methyl)sulfinyl]-1H-benzimidazole			Current X_Y	16. Records and Reports: Current X Yes No Reviewed	
Yes X No No No No No No No No					
18. Conclusions and Re 18 month expiration de 30 count bottle, 100 count bottle, and 90 days submission. The applications of 40 mg capsuthe data in the Annual	ate for each participant bottle, in cant should be also in each participants and the state of th	ackage type (Hospi 1000 count bottle, days propose e advised that the	tal Unit Dose 7 count physi, 60 days d in the June v must place t	Blisters, Lcian's sample), s 26, 1997 the first three	
19. <u>Reviewer</u>		1.71.2	···		
Name: Arthur B. Shaw, Ph.D.	Signa	sture /5/	1	Completed:	

3. <u>Name and Address o</u> Astra Merck Inc. 725 Chesterbrook Blvo Wayne, PA 19087	·	ity & State):		er: OCT 4 199
6. <u>Name of Drug:</u> 7. <u>Nonproprietary Name:</u> PRILOSEC® Delayed Omeprazole			Numbers SCF-038	Dates Feb 26, 1996
8. <u>Supplement Provide</u> a new dosage strength		e.		1996 1997
10. <u>Pharmacological</u> H+/K+ ATPase enzyme i (H+ pump inhibitor)		11. <u>How Dispensed:</u> RX_XOTC	12. <u>Related</u> IND/NDA/DM	_
13. <u>Dosage Form:</u> capsule		14. <u>Potency:</u> 10 mg, 20 mg and 40 mg	•	
15. <u>Chemical Name and</u> 5-methoxy-2-[((4-methoxy-2)) methyl) sul	noxy-3, 5-dime		16. Records Current X Yes Reviewed Yes	s and Reports: No No
17. Comments: cc: NDA 19-810 HFD-180/Div Fil HFD-181/MWalsh HFD-180/LTalari HFD-180/EDuffy HFD-180/AShaw R/D init by:EDu; ABS/abs F/T 10/:	co Efy 10/10/97 —	PFILES\CHEM\FINAL\SUP\	7	
18. <u>Conclusions and R</u>	ecommendations	: The supplement is A	oprovable (AE)
19. <u>Reviewer</u>			, <u> </u>	
Name: Arthur B. Shaw, Ph.D.	Signa	15/ 19/19	/97 Date Co Septemi	ompleted: per 24, 1997

Form FDH 2266 (7/75) ALT R

CHEMIST'S REVIEW 2	2. NDA Numb	per: 19-810			
3. Name and Address of Applicant (City & State): Astra Merck Inc. 725 Chesterbrook Blvd			4. AF Number	4. AF Number: APR - 1 1995 5. Supplement(s)	
6. Name of Drug:	7. <u>Nonpropriet</u> Omeprazole	cary Name:		Numbers SCF-038	Dates Feb 26, 1996
8. <u>Supplement Provides for:</u> a new dosage strength, 40 mg capsule.				9. Amendments and Other (Reports, etc.) Dates: BC Jul 7, 1996 BC Oct 10, 1996	
10. <u>Pharmacological Category:</u> 11. <u>How Dispensed:</u> H+/K+ ATPase enzyme inhibitor RX_X_ OTC (H+ pump inhibitor)			12. <u>Related</u> IND/NDA/DM		
13. <u>Dosage Form:</u> capsule		14. <u>Potency:</u> 10 mg, 20 mg	-		
15. <u>Chemical Name and Structure:</u> 5-methoxy-2-[((4-methoxy-3, 5-dimethyl-2- pyridinyl)methyl)sulfinyl]-1H-benzimidazole			16. Records Current X Yes Reviewed X Yes		
17. Comments: cc: NDA 19-810 HFD-180/Div File HFD-181/MWalsh HFD-180/SFredd HFD-180/EDuffy HFD-180/AShaw R/D init by:EDuf ABS/dob F/T 3-26	fy/3-20 - 97	5/3/7	\19810038	4/1/97	
18. <u>Conclusions and Re</u>					ole (NA)
19. <u>Reviewer</u>		* *		approvat	/IVA).
Name: Arthur B. Shaw, Ph.D. Form FDH 2266 (7/75)	Signa	ture /S/	1 ,3/28/9	Date Co March 1	mpleted: 7, 1997

CHEMIST'S REVIEW 1	1 <u>rganizatio</u>	on: HFD-180	2. <u>NDA Number:</u> 19-810		
3. Name and Address of Applicant (City & State): Astra Merck Inc.			4. <u>AF Number:</u> 007 28 66		
705 01 1 1 7 7 7			5. <u>Supplement(s)</u>		
6. <u>Name of Drug:</u> PRILOSEC® Delayed	7. <u>Nonpropriet</u> Omeprazole	ary Name:	Numbers	Dates	
Release Capsule	Omeprazore		SCP-050	April 28, 1997	
8. <u>Supplement Provide</u> packaging of physicia			1	nts and Other etc.) Dates:	
10. <u>Pharmacological</u> H+/K+ ATPase enzyme i (H+ pump inhibitor)		11. <u>How Dispensed:</u> RX_XOTC	12. <u>Related</u> IND/NDA/DM		
13. <u>Dosage Form:</u> capsule		14. <u>Potency:</u> 10 mg and 20 mg			
15. Chemical Name and			16. Records	s and Reports:	
5-methoxy-2-[((4-met pyridinyl)methyl)sul			CurrentX_Yes	No	
			Reviewed Yes	<u>X</u> No	
personalized physici provide samples of the Advertising establishment was for the Advertising establishment was for the Advertising establishment was for the ABO/Div Fill HFD-180/Div Fill HFD-180/LTalar HFD-180/EDuffy HFD-180/AShaw R/D init by:EDU ABS/dob F/T 10-ATTACHMENTS (2): Tel Tel	currently apprinto an prescriptione labeling for und to be accepted. If fy/10-28-97 -28-97\WP: c:\recon, dated 8-econ, dated 10	oved Hospital Unit Dose The package on blanks. The applicant review by the Division This information has otable on August 19, 19 BEST wpfiles\chem\\$\19810056 18-97 1-3-97	dary package primge will also not was request nof Drug Mas not been perimger. POSS O.1AS	ring will mary package o contain ested to arketing and rovided. This	
18. <u>Conclusions and information</u>	Recommendation	ns: Approvable pending	receipt of :	labeling	
19. <u>Reviewer</u>		110/2	14-		
Name: Arthur B. Shaw, Ph.D Form FDH 2266 (7/7		nature /\$ /	Date C Octobe	Completed: er 28, 1997	

DIVISION OF GASTROINTESTINAL AND COAGULATION DRUG PRODUCTS

Review of Chemistry, Man	ufacturing, and Controls Supplement
NDA #:19-810 SUPPLEMENT #:SCP-056	6 CHEM REVIEW #:1 REVIEW DATE: July 7, 1998
DOCUMENT CDER ASSIGNED	CHEM REVIEW #:1 REVIEW DATE: July 7, 1998
28-May-98 29-May-98 01-Jun-98	
SUPPLEMENT PROVIDES FOR: the use	of an alternate stock for the
- (05) Dackadin	10
NAME & ADDRESS OF APPLICANT: Ast	a Merck
725 Chesterbrook Blvd.	
Wayne, PA 19087-5677	
DRUG PRODUCT NAME: Prcorietar	y: Prilosec Nonproprietary/USAN: omeprazol
ulcers	pump inhibitor INDICATION: treatment of
DOSAGE FORM: CAPSULE, DELAYED REI 20 mg	EASE PELLETS STRENGTH: 10 and
ROUTE OF ADMINISTRATION: oral HC	W hispensen. V n
CHEMICAL NAME, STRUCTURAL FORMERS	MOLECUE
5-methoxy-2-[[()4-methoxy-3,5-dim	ethyl-2-pyridinyl)methyl]sulfinyl] 1 <u>h</u> -
benzimidazole	by pyriding meeny i suffiny i lh-
O	
N S -CH 2	
N N	
H ₃ C O	
CH 3	
OCH 3	
SUPPORTING DOCUMENTS:	
RELATED DOCUMENTS N/A	
RELATED DOCUMENTS: N/A CONSU	LTS: N/A
stock supplied by	t resulted from a discovery that the
currently approved stock	was actually different from the
currently approved stock.	rutinel investigation showed that the
out was not flagged as a change	The emining In an Amidal Report in 1996
1	ference and no review.
CONCLUSIONS & RECOMMENDATIONS: TI	ne supplement may be approved with an
expiration date of six months.	1 = approved with an
•	
	/S/
Ā	orthur B. Shaw, Ph.D.
	erthur B. Shaw, Ph.D., Seview Chemist, HFD-180
	7/
سو−	/5/ 1/8/98
 E	ric P. Duffy, Ph.D.
C	hemistry Team Leader, HFD-180

APPLICATION NUMBER: 019810/S38/S50/S56

STATISTICAL REVIEW(S)

STATISTICAL REVIEW - STABILITY STUDIES

NDA#:

19-810

Date:

MAY

6 1997

Applicant:

Astra Merck

Manufacturer:

Merck & Co.

Name of Drug:

Prilosec Caps (omeprazole, 40mg)

Classification:

1S

Dates:

1/27/1997, Desired 4/12/1997, Goal 5/12/1997

Documents Reviewed:

one volume submitted by the sponsor including a floppy

disk, dated 10/10/1996

I. INTRODUCTION

In this NDA submission, the sponsor has requested an 18 month expiration dating for their 40mg formulation, as granted for their 10mg and 20 mg formulations.

The reviewing chemist in HFD-180 for this submission is Dr. Art Shaw. He finds
chemical reasons for not pooling batches produced at the two sites
This leaves only two batches at the first site and one
at the second site. Customarily, at least three potentially poolable batches are needed to
obtain an expiration date, so no expiration dates can be given.

The first issue addressed is the extent to which pooling across package types is statistically feasible, requested by the reviewing chemist. Based on the assumption-that there are no chemical reasons for not pooling package types, this reviewer has reviewed whether there are statistical reasons for not pooling package types.

The second issue addressed is how to pool. In both submissions (2/1996 and 1/1997), the sponsor appears to pool when the p-value is above 0.05. However, the custom is to pool only when the p-value is above 0.25, for a target goal of more than 95% of the tablets expiring past the estimated expiration date. If the sponsor wants to use another target goal, they need to tell the FDA what it is, and justify the resulting inference procedure.

II. DESIGN

Number of package types: 6.

HUD Blister	(Hospital Unit Dose)	- all three lots
30 capsule CR	(Child Resistant)	- all three lots
100 capsule CR	(Child Resistant)	- all three lots
1000 capsule nCR	(non-Child Resistant)	- all three lots
7 capsule nCR	(non-Child Resistant)	- lot 214407 only
1000 capsule CR	(Child Resistant)	- lot 214407 only

<u>Tested Parameters:</u>	Specification limits:
Assay	
Largest Degradant	
Total Degradants	-

Acid Resistance and Dissolution are not analyzed since these are measured for perbatch quality control, to determine whether to withdraw or continue using a batch, and hence do not need to be considered for stability, unless a substantial number of batches are rejected.

Sampling times: For temperature 30°C, ambient humidity, the observation times and results for each batch analyzed are listed in appendix **Tables 1** to **3**, based on the sponsor's electronically submitted data. Tests were to be conducted at least once every six months to two years.

III. SPONSOR'S ANALYSIS

The sponsor's graphical analysis indicates pooling of all manufacturing sites, lots of drug, and package types. This analysis shows a result for an 18 month expiration. The Largest Degradate appears to be the first parameter to lead to expiration.

IV. REVIEWER'S ANALYSIS OF POOLABILITY

As shown in appendix Tables 4 to 6, this reviewer finds only "Largest Degradate" poolable across package types. "Assay" and "Total Degradates" are not poolable in general.

Note that additional data may change these conclusions. The tests for poolability were

conducted at the 0.25 level, matching the analysis which would be used to determine the expiration date if sufficient lots from a single site and manufacturing process were submitted. Substantial increases in data tend to reduce the amount of pooling.

Mock expiration dates and estimated regression lines are included in the appendix Tables 4 to 6 for completeness and to develop insight into stability. Each expiration date supports the suspicion that an expiration date of at least 18 months would be supported if three lots were tested and submitted, rather than two lots and one lot. None of the regression lines proceed in the reverse of the expected regression.

V. REVIEWER'S COMMENTS, HOW TO POOL

Appendix Tables 4 to 6 are drawn from the output of the ______ SAS program produced by Ng (FDA/CDER). The same runs produce the ANOVA tables in appendix Tables 7 to 10, with the key to the tests of hypotheses in appendix Table 7. The p-values which are the basis of not pooling are highlighted in bold. Each of these p-values for pooling are between 0.10 and 0.25, consistent with the sponsor's pooling all cases at the 0.05 level.

If the sponsor wants to use another target goal, they need to tell the FDA what it is, and justify the resulting inference procedure.

VI. SUMMARY CONCLUSIONS

Since the number of lots of drug from a single site and manufacturing process is less than three, no expiration date is supported. For the best results, the sponsor needs to submit stability data from at least three lots of drug from each combination of site, manufacturing process, and package for which an expiration date is sought.

The packages appear poolable with respect to the Largest Degradate, but not with respect to Assay nor Total Degradates.

The sponsor needs to test for poolability at the 0.25 level, or tell what their target goal is and justify the resulting inference procedure.

Ferrin Harrison, Ph.D. Mathematical Statistician

This review consists of 4 pages of text, and 11 pages of appendix tables.

Concur:

Dr. Huque /5/6/97

Dr. Smith /\$/16197

APPEARS THIS WAY ON ORIGINAL

= 5/6/1997

cc: Archival NDA

HFD-180/ Division Files

HFD-180/ Dr. Talarico

HFD-180/ Dr. Duffy

HFD-180/ Dr. Shaw

HFD-180/ Ms. Maria Walsh

HFD-870/ Dr. Raj Pradhan

HFD-720/ Dr. Smith

HFD-720/ Dr. Huque

HFD-720/ Dr. Harrison

HFD-720/ Chron

HFD-720/ File Copy

acting medical division director

chemistry team leader

reviewing chemist

CSO/review team administrator

consulting biopharmaceutics

statistical division director

statistical team leader

reviewing stability

Table 1 Prilosec Stability Data Lot AET MA-029-94, manufacturing site

Package	Study	Time, Months		Largest <u>Degradate</u>	Total <u>Degradates</u>
blister	X3341	0 3 6 12			
30caps/ 75cc CR	X3267	18 0 3 6 11 12			
100caps/12Ccc CR	X3286	18 0 3.—6 9 12			
1000caps/4Ccz nCR	X3282	18 0 3 6 12 18			
CR: Child Resista	nt cap	nCF	R: non-	Child Resi	stant cap

CR: Child Resistant cap nCR: non-Child Resistant cap

Table 2 Prilosec Stability Data Lot AET MA-030-94, manufacturing site____

Package blister	<u>Study</u> X3342	Months		Largest <u>Degradate</u>	Total <u>Degradates</u>
30caps/ 75cc CR	X3268	6 12 18 0 1 3 6			
100caps/120cc CR	X3287	11 12 18 0 3 6			·
1000caps/40oz nCR	X3283	12 18 0 3 6 12 18			
CR: Child Resistar	nt cap	nCR	: non-	Child Resi	stant cap

Table 3
Prilosec Stability Data
Lot 214407, manufacturing site

<u>Package</u> blister	Study X3343	Time, Months	Assay	Largest <u>Degradate</u>	Total <u>Degradates</u>
		3 6 12 18			
30caps/ 75cc CR	X3291	0 3 6 9 12 18			
100caps/120cc CR	X3290	0 — 3 6 9 12			: : : :
1000caps/40oz nCR	X3300	0 3 6 12 18			
7caps/30cc nCR	X3363	0 3 6 12			·
1000caps/40oz CR	X3364	0 3 1 6 12			
CR: Child Resista	nt cap	nCR	: non-	Child Resi	stant cap

Table 4 Stability Analysis, Assay

Lot AET MA-029-94 HUD, 30cap CR, 100cap CR, 1000cap nCR Common Intercept and Common Slope

Fitted Line Expiration $Y = 97.64 + 0.01149 \times 72 \text{ months}$

Lot AET MA-030-94 Separate Intercepts and Common Slope

Package		Study	Fit	ted Line	9			Exp	iration
HUD Blis	ster	X3268	Y =	101.78	-	0.06693	Χ	71	months
30cap	CR	X3283	Y =	99.26	_	0.06693	Χ	57	months
100cap	CR	X3287	Y =	99.94	-	0.06699	Χ	61	months
1000cap	nCR	X3342	Y =	100.16	_	0.06693	Χ	62	months

Lot 224407 Separate Intercepts and Common Slope

Package		Study	Fitted Line						Expiration	
HUD Blister		X3290	Y	=	97.57	-	0.15218	Χ	34	months
30cap	CR	X3291	Y	=	93.73	-	0.15213	Χ	39	months
100cap	CR	X3300	Y	=	99.55	-	0.15218	Χ	42	months
1000cap	nCR	X3343	Y	=	97.27	-	0.15212	Χ	32.	months
7cap	nCR	X3363	Y	=	98.55	_	0.15218	Χ	37	months
1000cap	CR	X3364	Y	=	98.77	_	0.15218	·X	38	months

Table 5 Stability Analysis of Largest Degradate

HUD, 30cap CR, 100cap CR, 1000cap nCR Common Intercept and Common Slope

Fitted Line Expiration
Y = 0.12642 + 0.008629 X 27 months Lot AET MA-029-94
Y = 0.09511 + 0.010805 X 26 months Lot AET MA-030-94
Y = 0.10999 + 0.009774 X 30 months AET MA-029-94+MA-030-94

HUD, 30cap CR, 100cap CR, 1000cap nCR, 7cap nCR, 1000cap CR Common Intercept and Common Slope

Fitted Line Expiration Y = 0.22292 + 0.003299 X 35 months Lot 224407

Table 6 Stability Analysis of Total Degradates

Lot AET MA-029-94 Separate Intercepts and Separate Slopes

Package	Study	Fitted Line	Exp:	iration
HUD Blister	X3267	Y = 0.33742 + 0.009509	X 38	months
30cap CR	X3282	Y = 0.14138 + 0.012644	X 72	months
100cap CR	X3286	Y = 0.06286 + 0.033810	X 36	months '
1000cap nCR	X3341	Y = 0.12155 + 0.043391	X 30	months

Lot AET MA-030-94 Separate Intercepts and Separate Slopes

Package	Study	Fitted Line	Expiration
		Y = 0.21247 + 0.017896 X	
30cap CR	X3283	Y = 0.13707 + 0.010632 X	72 months
100cap CR	X3287	Y = 0.02857 + 0.038095 X	33 months
1000cap nCR	X3342	Y = 0.075 + 0.041667 X	34 months

Lot 224407

HUD, 30cap CR, 100cap CR, 1000cap nCR, 7cap nCR, 1000cap CR Common Intercept and Common Slope

Fitted Line Expiration $Y = 0.24792 + 0.022975 \times 58 \text{ months}$

Table 7 Analysis of Poolability by Package Type Key to Sources of Variation, for use with Tables 8-10

Statistical Analysis:
Key to sources of variation

C = separate intercept, separate slope
! separate intercept, common slope

D = Residual

E = Full Model

APPEARS THIS WAY

Explanation: The p-value in line A is used to test whether to use a separate intercept, separate slope model, if p<.25, versus a common intercept, common slope model. Similarly for B and C, with a different pair of models in each case.

APPEARS THIS WAY

Table 8 Analysis of Poolability, Assay 30cap CR, 100cap CR, 1000cap nCR, Lot AET MA-029-94 Common Intercept and Common Slope SOURCE SS DF F MS Α В С D Ē , 30cap CR, 100cap CR, 1000cap nCR, Lot AET MA-030-94 Separate Intercepts and Common Slope SOURCE SS DF MS F Α В C D E), 30cap CR, 100cap CR, 1000cap nCR, 7cap nCR, 1000cap CR Lot 224407 Separate Intercepts and Common Slope SOURCE SS DF MS F Ρ., Α В С D A =soparate intercept, separate slope common intercept, common slope B =separate intercept, common slope common intercept, common separate intercept, separate slope C =| separate intercept, common

slupe

Table 9

Analysis of Poolability, Largest Degradate . 30cap CR, 100cap CR, 1000cap nCR, Lot AET MA-029-94 Common Intercept and Common Slope SOURCE SS DF MS Α В C D Ε 30cap CR, 100cap CR, 1000cap nCR, Lot AET MA-030-94 Common Intercept and Common Slope SOURCE SS DF MS Α В C D Ε 30cap CR, 100cap CR, 1000cap nCR Lots AET MA-029-94, AET MA-030-94 Common Intercept and Common Slope SOURCE SS Ρ DF MS F Α В C D E separate intercept, separate slope | common intercept, common slope separate intercept, common slope common intercept, common slape separate intercept, separate slope

| separate intercept, common

Table 9b Analysis of Poolability, Largest Degradate

30cap CR, 100cap CR, 1000cap nCR, 7cap nCR, 1000cap CR

Lot 224407

Common Intercept and Common Slope

SC	OUR A B C D	.CE	SS	DF	MS	F	P	-
А	=	1	separate common	<pre>intercept, intercept,</pre>	-	slope slope		APPEARS THIS WAY
В	=	I	separate common	<pre>intercept, intercept,</pre>		slope slope		Section 1997
С	=	1		<pre>intercept, intercept,</pre>	-	slope slope		

- APPEARS THIS WAY

sloce

Table 10 Analysis of Poolability, Total Degradates 30cap CR, 100cap CR, 1000cap nCR, Lot AET MA-029-94 Separate Intercepts and Separate Slopes Ρ SS DF MS SOURCE Α В С D E 30cap CR, 100cap CR, 1000cap nCR, Lot AET MA-030-94 Separate Intercepts and Separate Slopes SOURCE SS DF MS F Ρ Α В С D Ε 30cap CR, 100cap CR, 1000cap nCR, 7cap CR, 1000cap CR Lot 224407 Common Intercept and Common Slope SOURCE SS DΕ F Ρ MS Α В C D Ε separate intercept, separate slope A =| common intercept, common slope separate intercept, common B = sloce common intercept, common slope separate intercept, separate slope

| separate intercept, common