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APPROVAL PACKAGE FOR:

APPLICATION NUMBER

NDA 21-574

Chemistry Review(s)

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CHEMISTRY REVIEW

NDA 21-574

Fortamet[™] Extended-Release Tablets

Metformin HCl, USP ER Tablets

Andrx Labs, Inc. (Andrx)

CMC Review # 2

Xavier Ysern, PhD HFD-510

CHEMISTRY REVIEW

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CHEMISTRY REVIEW

Chemistry Review Data Sheet

Chemistry Review Data Sheet

- **1. NDA** 21-574
- **2. REVIEW #** 2

3. REVIEW DATE: 01-AUG-2003 (review # 2)

4. REVIEWER: Xavier Ysern

5. PREVIOUS DOCUMENTS: Doci

Document(s)

Document Date

6. SUBMISSION(S) BEING REVIEWED:

Submission(s) Reviewed Original Amendment Document Date 17-DEC-2002 29-JAN-2003 17-MAR-2003 15-MAY-2003 28-JUL-2003

7. NAME & ADDRESS OF APPLICANT:

Name:	Andrx Labs, Inc.	phone (201) 883-1898		
Address:	401 Hackensack Avenu	ie		
	Hackensack, NJ 07601			
Representative:	Nicholas J. Farina, Vice President Regulatory Affairs			
Telephone:	(610) 428-2417 Fax:	(201) 883-1893		

8. DRUG PRODUCT NAME/CODE/TYPE:

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 a) Proprietary Name: b) Non-Proprietary Name (USAN): c) Code Name: d) Chem. Type/Submission Priority: Chem. Type: Submission Priority: 	Fortamet [™] ER Tablets Metformin HCl Extended-Release Tablets Type 4 S					
9. LEGAL BASIS FOR SUBMISSION:						
10. PHARMACOLOGICAL CATEGORY:	Proposed for the treatment of Type 2 diabetes mellitus as an adjunct to diet and exercise					
11. DOSAGE FORM:	Tablets					
12. STRENGTH/POTENCY:	500-mg and 1000-mg					
13. ROUTE OF ADMINISTRATION:	Oral					
14. Rx/OTC DISPENSED:	Rx					
15. SPOTS (SPECIAL PRODUCTS ON-LINE TRACKING SYSTEM): Not a SPOTS product						

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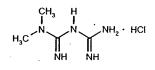
CHEMISTRY REVIEW

Chemistry Review Data Sheet

16. CHEMICAL NAME, STRUCTURAL FORMULA, MOLECULAR FORMULA, MOL. WEIGHT:

Metformin Hydrochloride

C₄H₁₁N₅ · HCl MW = 129.17 + 36.46 = 165.63 CAS 657-25-9 (free base) 1115-70-4 (hydrochloride)



N,N-Dimethylimidodicarbonimidic diamine monohydrochloride or N,N-Dimethylbiguanide HCl

17. RELATED/SUPPORTING DOCUMENTS:

A. DMFs:

DMF #	LOA date	Holder	Item Referenced	Code ¹	Status ²	Date Review Completed	Comments
Туре II							
	5.Nov.2001		Metformin HCl (DS)	1	Adequate	23-JAN-2002	ANDA 75961
Type III	[· · · · · · · · · · · · · · · · · · ·		
16	5.Mar.2001			4	Adequate		
08	3.Oct.2002		1	4	Adequate		
02	2.May.2002			4	Adequate		
06	5.Aug.2002			4	Adequate		
2 01	.Mar.1999			4	Adequate		
-).Dec.2001			3	Adequate	01-APR-1999	
03	May.2000	i i		4	Adequate	1	1
25	.May.2001			4	Adequate		
	.May.2002			4	Adequate		
J	.Jun.2002			4	Adequate		1
	Dec.1997			4	Adequate		
	5.Jun.2002			4	Adequate		
day and the second s	Mar.2001	1		4	Adequate		
12	2.Sep.2002			4	Adequate		
11	.Oct.2002			4	Adequate		1
ī	.Oct.2002		Ť	4	Adequate	1	
Type IV						1	
	3.Feb.2002 3.Feb.2002 7.Dec.2000	· · ·		4		Part of this review	
!	Action code	s for DMF Table:	<u> </u>			<u> </u>	

DOCKF

1 - DMF Reviewed.

Other codes indicate why the DMF was not reviewed, as follows:

2-Type I DMF

- 3 Reviewed previously and no revision since last review
- 4 Sufficient information in application
- 5 Authority to reference not granted
- 6 DMF not available
- 7 Other (explain under "Comments")

² Adequate, Inadequate, or N/A (There is enough data in the application, therefore the DMF did not need to be reviewed)

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