

**CENTER FOR DRUG EVALUATION AND  
RESEARCH**

*APPLICATION NUMBER:*

**75-602**

**CHEMISTRY REVIEW(S)**

AUG 14 2000

38. Chemistry comments to be provided to the applicant

ANDA: 75-602                    APPLICANT: **Mikart, Incorporated**

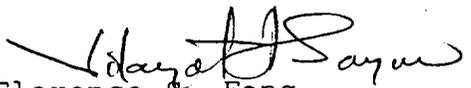
DRUG PRODUCT: Aminocaproic Acid Tablets USP, 500 mg

The following deficiencies represent MINOR deficiencies:

1. DMF                    is deficient and the holder has been informed.
2. Your specification                    for                    in the drug substance is too high compared to your specification                    for                    in the finished product and stability specifications.
3. What do you mean by completion of Pharmacy step? Is it the end of weighing of ingredients? Note that start time of manufacturing is the day the active ingredient is mixed with other ingredients.
4. We acknowledge the receipt of your in-process summary production (p 10 of Amendment dated March 21, 2000) and that friability, disintegration, and individual weight variations of 20 units have been removed from the tablet compression master. Please clarify.
5. Please refer to question #5 in the last deficiency letter and clarify if the actual test dates for the 30-day and 60-day time stations are July 24 and July 26, 1996, respectively. Note that scheduled removal date for 30-day and 60-day time stations are June 24 and July 25, 1996, respectively.

6. We acknowledge that the test for related substances was added on the 29<sup>th</sup> of July 1998. However, no test was conducted at the 36 months time station (April 16, 1999) for lot #B960222. Please explain. In addition, your stability report form should have all the changes such as moisture and specifications for related substances.

Sincerely yours,

*for* 

Florence S. Fang

Director

Division of Chemistry II

Office of Generic Drugs

Center for Drug Evaluation and Research

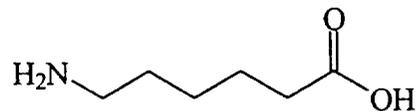
1. CHEMISTRY REVIEW # 2
2. ANDA # 75-602
3. NAME AND ADDRESS OF APPLICANT  
Mikart, Incorporated  
Attention: Cerie B. McDonald  
1750 Chattahoochee Avenue, N.W.  
Atlanta, GA 30318
4. LEGAL BASIS FOR ANDA SUBMISSION  
The basis of this submission is the approved listed drug, Amicar® Tablets, 500 mg (NDA #15-197). There are no patent information and exclusivity period for the listed drug (pp 12, 14).
5. SUPPLEMENT(s)  
N/A
6. PROPRIETARY NAME  
N/A
7. NONPROPRIETARY NAME  
Aminocaproic Acid
8. SUPPLEMENT PROVIDE FOR:  
N/A
9. AMENDMENTS AND OTHER DATES:  
March 17, 1999: Original Submission  
April 28, 1999: Refuse to File  
May 14, 1999: Amendment  
May 17, 1999: Acceptable for Filing  
October 4, 1999: Bio Review #1  
October 29, 1999: Chemistry Review #1  
November 1, 1999: Labeling Review #1  
March 21, 2000: Amendment
10. PHARMACOLOGICAL CATEGORY  
Antifibrinolytic Agent
11. R or OTC  
R
12. RELATED DMFs

13. DOSAGE FORM  
Tablet

14. POTENCY  
500 mg

15. CHEMICAL NAME AND STRUCTURE

Aminocaproic Acid. C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>. 131.18. 6-Aminohexanoic acid



16. RECORDS AND REPORTS  
N/A

17. COMMENTS  
New comments/deficiencies are in bold.

18. CONCLUSIONS AND RECOMMENDATIONS  
Not approvable, MINOR

19. REVIEWER  
Ijeoma N. Nnamani, Ph.D.

DATE COMPLETED  
July 26, 2000

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Information and are not

releasable.

Chem Rev 2  
7/26/00

38. Chemistry comments to be provided to the applicant

ANDA: 75-602                    APPLICANT: **Mikart, Incorporated**

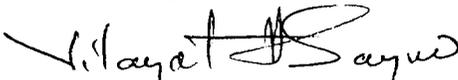
DRUG PRODUCT: Aminocaproic Acid Tablets USP, 500 mg

The following deficiencies represent MINOR deficiencies:

1. DMF                    is deficient and the holder has been informed.
2. Your specification                    for  
in the drug substance is too high compared to your  
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date for 30-day and 60-day time stations are June 24 and  
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6. We acknowledge that the test for related substances was added on the 29<sup>th</sup> of July 1998. However, no test was conducted at the 36 months time station (April 16, 1999) for lot #B960222. Please explain. In addition, your stability report form should have all the changes such as moisture and specifications for related substances.

Sincerely yours,

*js*  8/14/00

Florence S. Fang

Director

Division of Chemistry II

Office of Generic Drugs

Center for Drug Evaluation and Research

38. Chemistry comments to be provided to the applicant

ANDA: 75-602

APPLICANT: Mikart, Incorporated

DRUG PRODUCT: Aminocaproic Acid Tablets USP, 500 mg

The following deficiencies represent MAJOR deficiencies.

A. Deficiencies:

1. What is the time limit of your manufacturing process?
2. Reported hardness results for both executed batches are in the range of . Please reduce your specified hardness range to reflect results obtained. In addition, correct your blank batch record to reflect the change in the lower limit from .
3. Please include an organoleptic test in your finished product specifications. Also, we require tests and specifications for moisture and hardness in your finished product specifications.
4. We note that in your . method validation report for the analysis of . you established a limit of NMT . Please include this limit in your finished product and stability specifications.
5. Please clarify the actual test dates for your accelerated stability data (p. 2052) and resubmit your stability data with the correct dates.
6. We acknowledge that you added a test for related substances in July 1998 and at the 6 and 9 months stations (lot #A980053) no related substance was detected. We recommend that you reduce your limits for individual and total related substances because the current specifications are too broad compared to results obtained during your validation studies. Also, please specify on both your finished product and stability specifications, "Limit for individual related substances, excluding caprolactam."
7. Please submit updated room temperature stability data.
8. We note that you increased the upper limit of your hardness range from . to accommodate your accelerated stability data for lot #B960222 . Room temperature hardness results for the same lot are from .

s). Do you have an explanation for the high hardness values obtained during accelerated stability studies of lot #B960222 (p. 2052)?

9. Please include a test and specification for moisture in your stability specifications.
  10. How did you calculate your expiration period?
  11. Purified water and total weight should be included in Components/Composition statement. Please revise and resubmit.
- B. In addition to responding to the deficiencies presented above, please include the primary function of each excipient in the component/composition statement.

Sincerely yours,

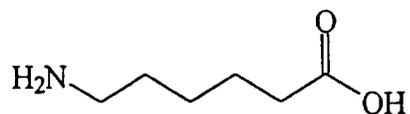


Florence S. Fang  
Director  
Division of Chemistry II  
Office of Generic Drugs  
Center for Drug Evaluation and Research

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2. ANDA # 75-602
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11. R or OTC  
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12. RELATED DMFs
13. DOSAGE FORM  
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14. POTENCY  
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16. RECORDS AND REPORTS

N/A

17. COMMENTS

See review

18. CONCLUSIONS AND RECOMMENDATIONS

Not approvable, Major.

19. REVIEWER

Ijeoma N. Nnamani, Ph.D.

DATE COMPLETED

October 27, 1999

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10/22/99



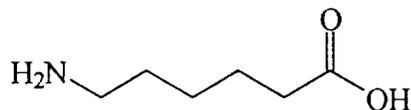
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16. RECORDS AND REPORTS  
N/A

17. COMMENTS  
See review

18. CONCLUSIONS AND RECOMMENDATIONS  
Approvable pending labeling and bioequivalence.

19. REVIEWER  
Ijeoma N. Nnamani, Ph.D.

DATE COMPLETED  
November 7, 2000

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releasable.

Chem Rev #3

11/7/00