CENTER FOR DRUG EVALUATION AND RESEARCH

Application Number 74-754

CHEMISTRY REVIEW(S)

1. CHEMISTRY REVIEW NO 3

- 2. ANDA 74-754
- 3. NAME AND ADDRESS OF APPLICANT
 Lemmon Company
 Attention: Deborah A. Jaskot
 650 Cathill Road
 Sellersville, PA 18960
- 4. <u>LEGAL BASIS FOR SUBMISSION</u>
 Toradol® (Syntex) NDAs 19645 (10 mg tablets) & 19698 (injection). Patent expires 05/16/97
- 5. SUPPLEMENT (s-) N/A
- 6. PROPRIETARY NAME N/A
- 7. NONPROPRIETARY NAME Ketorolac Tromethamine Tablets, USP
- 8. SUPPLEMENT(s) PROVIDE(s) FOR: N/A
- 9. AMENDMENTS AND OTHER DATES: see next page
- 10. PHARMACOLOGICAL CATEGORY 11. Rx or OTC Nonsteroidal anti-inflammatory Rx
- 12. RELATED IND/NDA/DMF(s) see DMF checklist
- 13. DOSAGE FORM 14. POTENCY Tablets 10 mg
- 15. CHEMICAL NAME AND STRUCTURE

 (±)-5-Benzoyl-2,3-dihydro-1Hpyrrolizine-1-carboxylic acid,
 compound with 2-amino-2(hydroxymethyl)-1,3-propanediol (1:1)

 $C_{15}H_{13}NO_3 \cdot C_4H_{11}NO_3$

M.W. = 376.41 CAS [74103-07-4]

- 16. RECORDS AND REPORTS N/A
- 17. <u>COMMENTS</u> Tentative approval to full approval; firm reports no changes in the application since the tentative approval. Therefore this review document merely summarizes previous reviews.
- 18. CONCLUSIONS AND RECOMMENDATIONS Recommend: APPROVAL.
- 19. REVIEWER: J. L. Smith DATE COMPLETED: 04/08/97 Endorsements: HFD-623/J.Smith/JC HFD-623/V.Sayeed/4-

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Commercial/Confidential

Information and are not

releasable.

4/8/97

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Addendum to the Chemistry Review

ANDA 74-754 Lemmon

Ketorolac Tromethamine Tablets USP, 10 mg

Addendum Items:

New submissions since chemistry review:

Date:

November 22, 1996

Type:

New Correspondence. (Change in patent

certification.)

Action: None. (Not a chemistry issue.)

Date:

September 30, 1996

Type:

Chemistry Amendment. (New contract lab to

perform X-ray diffraction testing on the

active drug substance.)

Action:

EER was amended to include Oneida Research

Services, Inc.

2. Labeling:

> Pending at the time of the chemistry review. Labeling is now satisfactory (review dated 09/27/96).

3. Bio:

> Pending at the time of the chemistry review. Bio is now satisfactory (review dated 07/19/96).

4. EER:

Still pending as of 12/02/96.

Date of Addendum: December 2, 1996

- 1. CHEMISTRY REVIEW NO 2
- 2. ANDA 74-754
- 3. NAME AND ADDRESS OF APPLICANT
 Lemmon Company
 Attention: Deborah A. Jaskot
 650 Cathill Road
 Sellersville, PA 18960
- 6. PROPRIETARY NAME N/A
- 7. NONPROPRIETARY NAME Ketorolac Tromethamine Tablets, USP
- 10. PHARMACOLOGICAL CATEGORY
 Nonsteroidal anti-inflammatory
- 11. Rx or OTC

13. DOSAGE FORM Tablets

- 14. POTENCY 10 mg
- 15. CHEMICAL NAME AND STRUCTURE

 (±)-5-Benzoyl-2,3-dihydro-1Hpyrrolizine-1-carboxylic acid,
 compound with 2-amino-2(hydroxymethyl)-1,3-propanediol (1:1)
- CO₂H
 H₂N-C (CH₂CH)₃

 $C_{15}H_{13}NO_3.C_4H_{11}NO_3$

M.W. = 376.41

CAS [74103-07-4]

- 18. CONCLUSIONS AND RECOMMENDATIONS
 Recommend: APPROVAL (Tentative).
- 19. REVIEWER: J. L. Smith DATE COMPLETED: 06/28/96

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6/28/98 nestry Review

- 1. CHEMISTRY REVIEW NO 1
- 2. <u>ANDA</u> 74-754
- 3. NAME AND ADDRESS OF APPLICANT

Lemmon Company Attention: Deborah A. Jaskot 650 Cathill Road Sellersville, PA 18960

- 6. PROPRIETARY NAME N/A
- 7. NONPROPRIETARY NAME Ketorolaç Tromethamine Tablets, USP
- 10. PHARMACOLOGICAL CATEGORY
 Nonsteroidal anti-inflammatory

11. Rx or OTC Rx

13. <u>DOSAGE FORM</u> Tablets

14. POTENCY 10 mg

15. CHEMICAL NAME AND STRUCTURE

(±)-5-Benzoyl-2,3-dihydro-1Hpyrrolizine-1-carboxylic acid,
compound with 2-amino-2(hydroxymethyl)-1,3-propanediol (1:1)

 $C_{15}H_{13}NO_3 \cdot C_4H_{11}NO_3$

M.W. = 376.41

CAS [74103-07-4]

- 18. <u>CONCLUSIONS AND RECOMMENDATIONS</u>

 Recommend: NOT APPROVABLE. Minor Amendment.
- 19. REVIEWER: J. L. Smith DATE COMPLETED: 01/30/96

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