## CENTER FOR DRUG EVALUATION AND RESEARCH APPLICATION NUMBER: 20-965

MICROBIOLOGY REVIEW(S)



# REVIEW FOR HFD-540 OFFICE OF NEW DRUG CHEMISTRY MICROBIOLOGY STAFF MICROBIOLOGIST'S REVIEW #1 OF AMENDMENT

#### June 3, 1999

Α.	1.	<u>NDA</u>	20-965	Amendment
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**SPONSOR** 

DUSA Pharmaceuticals 400 Columbus Avenue

Valhalla, NY 10595

- 2. PRODUCT NAMES: Levulan®, (aminolevulinic acid HCl) Kerastik™ for Topical Solution 20%
- 3. DOSAGE FORM AND ROUTE OF ADMINISTRATION: 20% Topical Solution
- 4. METHOD(S) OF STERILIZATION: na
- 5. PHARMACOLOGICAL CATEGORY: Photosensitizer
- 6. <u>DRUG PRIORITY CLASSIFICATION</u>:
- B. 1. DATE OF INITIAL SUBMISSION: June 29, 1998
  - 2. <u>DATE OF AMENDMENT</u>: June 2, 1999
  - 3. RELATED DOCUMENTS:
  - 4. ASSIGNED FOR REVIEW: na
- C. <u>REMARKS</u>: This review addresses the microbial limit specifications of the drug product. The amendment was faxed to the Agency, with the hard copy to follow.

## APPEARS THIS WAY ON ORIGINAL



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D. <u>CONCLUSIONS</u>: This application is recommended for approval on the basis of product quality microbiology.

/S/ 6-3-79
Bryan Riley, Ph.D.

/S/ 499

cc:

HFD 540/Consult File HFD 540/O. Cintron HFD 540/Rev Chemist HFD 805/Consult File HFD 805/B. Riley

Drafted by: B. Riley, 6/3/99 R/D initialed by: P. Cooney,

APPEARS THIS WAY
ON ORIGINAL

APR 3.0 1999

## REVIEW FOR HFD-540 OFFICE OF NEW DRUG CHEMISTRY MICROBIOLOGY STAFF MICROBIOLOGIST'S REVIEW # 1 OF NDA

#### April 20, 1999

A.	1.	NDA	20-965

**SPONSOR** 

DUSA Pharmaceuticals 400 Columbus Avenue Valhalla, NY 10595

- 2. <u>PRODUCT NAMES</u>: Levulan®, (aminolevulinic acid HCl) Kerastik™ for Topical Solution 20%
- 3. DOSAGE FORM AND ROUTE OF ADMINISTRATION: 20% Topical Solution in a Kerastick<sup>TM</sup> Applicator
- 4. METHOD(S) OF STERILIZATION: N/A
- 5. PHARMACOLOGICAL CATEGORY: Photosensitizer
- 6. DRUG PRIORITY CLASSIFICATION:
- B. 1. DATE OF INITIAL SUBMISSION: June 29, 1998
  - 2. DATE OF AMENDMENT:
  - 3. RELATED DOCUMENTS:
  - 4. ASSIGNED FOR REVIEW: April 1, 1999
- C. <u>REMARKS</u>: The drug product (Levulan Kerastick) is a two component applicator in which Levulan and the Topical Solution Vehicle are admixed immediately prior to administration. This review addresses the validation of the Microbial Limit Test for this non-sterile topical product.

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D. <u>CONCLUSIONS</u>: This application is approvable, pending resolution of microbiological deficiencies. Please see "Microbiologists List of Deficiencies".

| 15/ 4-20-99 | Bryan Riley, Ph.D 4|30|99

cc:

HFD 540/Consult File HFD 540/O. Cintron HFD 540/Rev Chemist HFD 805/Consult File HFD 805/B. Riley

Drafted by: B. Riley, 4/20/99 R/D initialed by: P. Cooney,

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