CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 21-770

MICROBIOLOGY REVIEW

Product Quality Microbiology Review Review for HFD 550

18-July-2005

NDA:

21-770/N-000-BI

21-770/N-000-AZ

Drug Product Name

Proprietary:

Alphagan

Non-proprietary:

Brimonidine Tartrate Ophthalmic

Solution

Drug Product Classification:

Standard

Review Number:

3

Subject of this Review

	21-770/N-000-BI	21-770/N-000-AZ
Submission Date	March 11, 2005	June 27, 2005
Receipt Date	March 11, 2005	June 27, 2005
Consult Date	March 11, 2005	July 8, 2005
Date Assigned for Review	March 11, 2005	July 8, 2005

Submission History (for amendments only)

Date(s) of Previous Submission(s):

May 27, 2004 and

September 17, 2004

Date(s) of Previous Micro Review(s):

August 24, 2004 and

March 2, 2005

Applicant/Sponsor

Name:

Allergan Inc.

Address: 2525 DuPont Dr.

P.O. Box 19534

Irvine, CA 92623-9534

Representative:

Telephone:

Lewis Gryziewicz, R.Ph. 714-246-4470

Name of Reviewer:

Stephen E. Langille, Ph.D.

Conclusion:

Recommended for approval

Product Quality Microbiology Data Sheet

A. 1. TYPE OF SUBMISSION:

Amendment to original NDA

2. SUBMISSION PROVIDES FOR:

Responses to deficiencies

from review 2 (March 2,

2005)

3. MANUFACTURING SITE:

Allergan, Inc. 8301 Mars Dr. Waco, TX 76712

4. DOSAGE FORM, ROUTE OF ADMINISTRATION AND STRENGTH/POTENCY:

Ophthalmic solution

• 0.1%

• Topical

5. METHOD(S) OF STERILIZATION:

PHARMACOLOGICAL CATEGORY: Adrenergic agonist agent

SUPPORTING/RELATED DOCUMENTS:

None

C. REMARKS: On April 13, 2005, a teleconference was held with Allergan to convey product quality microbiology concerns at the Waco facility.

filename: C:/reviews/N021770R3.DOC

5.

B.

Executive Summary

I. Recommendations

A. Recommendation on Approvability -

NDA 21-770 is recommended for approval from the standpoint of product quality microbiology.

- B. Recommendations on Phase 4 Commitments and/or Agreements, if Approvable Not applicable
- II. Summary of Microbiology Assessments
 - A. Brief Description of the Manufacturing Processes that relate to Product Quality Microbiology
 The drug product will be processed at the Allergan Inc. manufacturing facility in Waco, Texas.
 - B. Brief Description of Microbiology Deficiencies No deficiencies were identified based upon the information provided.
 - C. Assessment of Risk Due to Microbiology Deficiencies Not applicable

III. Administrative

- A. Reviewer's Signature _____
- B. Endorsement Block
 Stephen E. Langille, Ph.D.
 Bryan Riley, Ph.D.
- C. CC Block In DFS

<u></u> Page(s) Withheld

Trade Secret / Confidential

Draft Labeling

Deliberative Process

Withheld Track Number: Microbiology-__

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

Stephen Langille 7/20/05 11:30:13 AM MICROBIOLOGIST

Bryan Riley 7/20/05 12:43:59 PM MICROBIOLOGIST

Product Quality Microbiology Review Review for HFD 550

2-March-2005

NDA:

21-770/BC

Drug Product Name

Proprietary:

To be determined

Non-proprietary:

Brimonidine Tartrate Ophthalmic

Solution

Drug Product Classification:

Standard

Review Number:

2

Subject of this Review

Submission Date:

September 17, 2004

Receipt Date:

September 20, 2004

Consult Date:

January 26, 2005

Date Assigned for Review:

January 26, 2005

Submission History (for amendments only)

Date(s) of Previous Submission(s):

May 27, 2004

Date(s) of Previous Micro Review(s):

August 24, 2004

Applicant/Sponsor

Name:

Allergan Inc.

Address:

2525 DuPont Dr.

P.O. Box 19534

Irvine, CA 92623-9534

Representative:

Lewis Gryziewicz, R.Ph.

Telephone:

714-246-4470

Name of Reviewer:

Stephen E. Langille, Ph.D.

Conclusion:

Approvable pending revision

Product Quality Microbiology Data Sheet

A. 1. TYPE OF SUBMISSION:

Amendment to original NDA

2. SUBMISSION PROVIDES FOR:

Responses to deficiencies

from review 1 (August 24,

2004)

3. MANUFACTURING SITE:

Allergan, Inc. 8301 Mars Dr. Waco, TX 76712

4. DOSAGE FORM, ROUTE OF ADMINISTRATION AND STRENGTH/POTENCY:

Ophthalmic solution

• 0.1%

• Topical

5. METHOD(S) OF STERILIZATION:

5. PHARMACOLOGICAL CATEGORY: Adrenergic agonist agent

SUPPORTING/RELATED DOCUMENTS: None

C. REMARKS: This review addresses the applicant's responses to deficiencies sent to Allergan by fax on August 24, 2004.

filename: C:/reviews/N021770R2.DOC

В.

Executive Summary

I. Recommendations

A. Recommendation on Approvability -

NDA 21-770 is approvable pending the resolution of microbiology deficiencies.

- B. Recommendations on Phase 4 Commitments and/or Agreements, if Approvable Not applicable
- II. Summary of Microbiology Assessments
 - A. Brief Description of the Manufacturing Processes that relate to Product Quality Microbiology -

The drug product will be processed at the Allergan Inc., manufacturing facility in Waco, Texas.

- B. Brief Description of Microbiology Deficiencies The Applicant failed to provide adequate information regarding equipment and validation and the procedure for conducting media fills.
- C. Assessment of Risk Due to Microbiology Deficiencies Failure to address the microbiology deficiencies listed above could result in an increased risk of product contamination during processing.

III. Administrative

- A. Reviewer's Signature
- B. Endorsement Block

Stephen E. Langille, Ph.D. David Hussong, Ph.D.

C. CC Block In DFS

Page(s) Withheld

§ 552(b)(4) Trade Secret / Confidential

S 552(b)(4) Draft Labeling

S 552(b)(5) Deliberative Process

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

Stephen Langille 3/4/05 07:52:01 AM MICROBIOLOGIST

David Hussong 3/4/05 09:49:52 AM MICROBIOLOGIST

Product Quality Microbiology ReviewReview for HFD 550

12-July-2004

NDA:

21-770

Drug Product Name

Proprietary:

To be determined

Non-proprietary:

Brimonidine Tartrate Ophthalmic

Solution

Drug Product Classification:

Review Number:

1

· Subject of this Review

Submission Date:

May 27, 2004

Receipt Date:

June 1, 2004

Consult Date:

June 9, 2004

Date Assigned for Review:

June 16, 2004

Submission History (for amendments only)

Date(s) of Previous Submission(s):

Not applicable

Date(s) of Previous Micro Review(s):

Not applicable

Applicant/Sponsor

Name:

Allergan Inc.

Address:

2525 DuPont Dr.

P.O. Box 19534

Irvine, CA 92623-9534

Representative:

Lewis Gryziewicz, R.Ph.

Telephone:

714-246-4470

Name of Reviewer:

Stephen E. Langille, Ph.D.

Conclusion:

Approvable pending revision

Appears This Way
On Original

Appears This Way
On Original

Product Quality Microbiology Data Sheet

A. 1. TYPE OF SUPPLEMENT:

Not applicable

2. SUPPLEMENT PROVIDES FOR:

Not applicable

3. MANUFACTURING SITE:

Allergan, Inc. 8301 Mars Dr. Waco, TX 76712

4. DOSAGE FORM, ROUTE OF ADMINISTRATION AND STRENGTH/POTENCY:

• Ophthalmic solution

• 0.1%

• Topical

5. METHOD(S) OF STERILIZATION:

حصيت

5. PHARMACOLOGICAL CATEGORY:

Agonist agent

B. SUPPORTING/RELATED DOCUMENTS:

None

C. REMARKS:

filename: C:/reviews/21-770r1.doc

Executive Summary

~	_	1 4
I.	Recomm	endations
1.	TCCCOININ	спианопо

A. Recommendation on Approvability NDA 21-770 is approvable pending the resolution of microbiology deficiencies.

B. Recommendations on Phase 4 Commitments and/or Agreements, if Approvable Not applicable

II. Summary of Microbiology Assessments

Α.	Brief Description of the Manufacturing Processes that relate to Product Quality Microbiology -		
	The drug product will be processed at the Allergan Inc.		
	manufacturing facility in Waco, Texas.		

B. Brief Description of Microbiology Deficiencies The Applicant failed to provide adequate information regarding the environmental monitoring program within the manufacturing facility,
and the procedure for conducting media fills.

C. Assessment of Risk Due to Microbiology Deficiencies Failure to address the microbiology deficiencies listed above could result in an increased risk of product contamination during processing.

III. Administrative

B. Endorsement Block
Stephen E. Langille, Ph.D.
Peter Cooney, Ph.D.

C. CC Block In DFS

15 Page(s) Withheld

§ 552(b)(4) Trade Secret / Confidential

_____ § 552(b)(4) Draft Labeling

_____ § 552(b)(5) Deliberative Process

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

Stephen Langille 8/24/04 09:47:25 AM MICROBIOLOGIST

Peter Cooney 8/24/04 09:54:52 AM MICROBIOLOGIST