CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 22442Orig1s000

MICROBIOLOGY REVIEW(S)

Product Quality Microbiology Review

16 March 2009

NDA:	22-442/N000
Drug Product Name	
Proposed Proprietary:	REZIRA (b) (4)
Non-proprietary:	Hydrocodone Bitartrate, USP
	Pseudoephedrine Hydrochloride, USP
Review Number:	1

Dates of Submission(s) Covered by this Review

Letter	Stamp	Review Request	Assigned to Reviewer
07-NOV-2008	10-NOV-2008	15-JAN-2009	23-JAN-2009

Submission History (for amendments only) N/A

Applicant/Sponsor	
Name:	Cypress Pharmaceuticals
Address:	135 Industrial Blvd.
	Madison, MS 39110
Representative:	William Putnam
Telephone:	(913) 451-3955
Name of Reviewer:	Denise Miller
Conclusion:	Approve

Product Quality Microbiology Data Sheet

- A. 1. **TYPE OF SUBMISSION:** Original NDA
 - 2. SUBMISSION PROVIDES FOR: new drug product
 - **3. MANUFACTURING SITE:**
 - 4. DOSAGE FORM, ROUTE OF ADMINISTRATION AND STRENGTH/POTENCY:
 - ^{(b) (4)} aqueous solution
 - Oral
 - Strength:
 - o 5 mg/5mL Hydrocodone bitratrate
 - o 60 mg/5 mL Pseudoephidrine hydrochloride

(b) (4)

- 5. **METHOD(S) OF STERILIZATION:** not a sterile drug product
- 6. **PHARMACOLOGICAL CATEGORY:** Relief of cough and nasal congestion

B. SUPPORTING/RELATED DOCUMENTS: N/A

C. **REMARKS**:

- Submission is an electronic document in the CTD format.
- Original submission's proposed name REZIRA ^{(b) (4)} was withdrawn from consideration on 04-MAR-2009. Proposed proprietary name REZIRA[™] still under consideration.

filename: N022439N000.R1

Executive Summary

- I. Recommendations
 - **A. Recommendation on Approvability** Recommend to approve from a quality microbiology standpoint.
 - B. Recommendations on Phase 4 Commitments and/or Agreements, if Approvable N/A
- II. Summary of Microbiology Assessments
 - A. Brief Description of the Manufacturing Processes that relate to Product Quality Microbiology – Non-sterile oral pharmaceutical product. Assessment of (b) (4) performed.
 - B. Brief Description of Microbiology Deficiencies None
 - C. Assessment of Risk Due to Microbiology Deficiencies N/A

III. Administrative

- A. Reviewer's Signature ______ Denise Miller, Microbiologist
- B. Endorsement Block Bryan S. Riley, Ph.D.
- C. CC Block N/A

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

/s/ Denise Miller 3/19/2009 01:18:13 PM MICROBIOLOGIST

Bryan Riley 3/19/2009 01:21:51 PM MICROBIOLOGIST I concur.