# CENTER FOR DRUG EVALUATION AND RESEARCH

**APPLICATION NUMBER:** 

203469Orig1s000

**MICROBIOLOGY REVIEW(S)** 

# **Product Quality Microbiology Review**

#### **September 22, 2012**

**NDA:** 203469

**Drug Product Name** 

**Proprietary:** Iclusig

Non-proprietary: Ponatinib

**Review Number:** 1

Dates of Submission(s) Covered by this Review

Submit	Received	Review Request	Assigned to Reviewer
7/30/2012	7/30/2012	8/13/2012	8/24/2012
10/16/2012	10/16/2012	N/A	N/A

#### **Submission History (for amendments only):** None

#### Applicant/Sponsor

Name: Ariad Pharmaceuticals, Inc.

Address: 26 Landsdowne St., Cambridge, MA 02139-4234

Representative: Daniel Bollag, Sr. V.P., Reg. Affairs

**Telephone:** 617 494 0400

Name of Reviewer: Steven P. Donald, M.S.

**Conclusion:** Recommended for approval.

## **Product Quality Microbiology Data Sheet**

- A. 1. TYPE OF SUBMISSION: NDA
  - 2. SUBMISSION PROVIDES FOR: Manufacture of an oral drug product
  - 3. MANUFACTURING SITE:

(b) (4)

- 4. DOSAGE FORM, ROUTE OF ADMINISTRATION AND STRENGTH/POTENCY: film-coated tablet, oral, 15 mg and 45 mg
- 5. **METHOD(S) OF STERILIZATION:** Non-sterile
- **6. PHARMACOLOGICAL CATEGORY:** anti-neoplastic for CML or ALL
- B. SUPPORTING/RELATED DOCUMENTS: None
- C. REMARKS: This is an eCTD submission. An information request was provided to the sponsor on 10/10/2012 and a response dated 10/16/2012 was received by this reviewer. See Sections 2.5 and 8.3 for information related to the information request and related response.

filename: N203469r1.doc

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#### **Executive Summary**

#### I. Recommendations

- A. Recommendation on Approvability NDA 203469 is recommended for approval from the standpoint of product quality microbiology.
- 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 The drug product is a tablet for oral administration. The tablet contents are tableting.
  - **B. Brief Description of Microbiology Deficiencies -** No deficiencies were identified based upon the information provided.
  - C. Assessment of Risk Due to Microbiology Deficiencies N/A

#### III. Administrative

<b>A</b> .	Reviewer's Signature		
	_	Steven P. Donald, M.S.	
B.	Endorsement Block		
		Bryan Riley, Ph.D.	
		Team Leader	

C. CC Block N/A

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/s/

STEVEN P DONALD
10/24/2012

BRYAN S RILEY 10/24/2012 I concur.

### PRODUCT QUALITY MICROBIOLOGY FILING CHECKLIST

NDA Number: 203469 Applicant: Ariad Letter Date: 7/30/2012

Pharmaceuticals, Inc

Drug Name: Inclusig NDA Type: 505(b)(1) Stamp Date: 7/30/2012

(ponatinib)

The following are necessary to initiate a review of the NDA application:

	Content Parameter	Yes	No	Comments
1	Is the product quality microbiology information described in the NDA and organized in a manner to allow substantive review to begin? Is it legible, indexed, and/or paginated adequately?	х		Information is organized but microbiology information is limiting.
2	Has the applicant submitted an overall description of the manufacturing processes and microbiological controls used in the manufacture of the drug product?	X		Microbiology controls not described here.
3	Has the applicant submitted protocols and results of validation studies concerning microbiological control processes used in the manufacture of the drug product?		X	Bacterial enumeration performed for validation batches and is acceptable; validation studies are not presented but are referenced to USP <61> and <62>
4	Are any study reports or published articles in a foreign language? If yes, has the translated version been included in the submission for review?		х	
5	Has the applicant submitted preservative effectiveness studies (if applicable) and container-closure integrity studies?			N/A
6	Has the applicant submitted microbiological specifications for the drug product and a description of the test methods?			No microbiological specifications for drug product. The applicant proposes not to perform routine microbiological testing of the drug product;

	Content Parameter	Yes	No	Comments
				activity is reported; compendial excipient microbiological information is provided in CofA of each. This information helps support the proposal but additional information may be required in the NDA.
7	Has the applicant submitted the results of analytical method verification studies?		X	No microbiological methods verification information provided.
8	Has the applicant submitted all special/critical studies/data requested during pre-submission meetings and/or discussions?			N/A
9	If sterile, are extended post-constitution and/or post-dilution hold times in the draft labeling supported by microbiological data?			N/A
10	Is this NDA fileable? If not, then describe why.	X		

# Additional Comments: Under Justification of specifications (justification-of-specifications.pdf, pg. 14/18) It is proposed not to include microbial limits in the specifications of horizontal drug product. While the NDA is fileable, we will have comments on the applicant's approach to supporting this proposal. A request for additional information will be made in the review of the NDA. Reviewing Microbiologist: Steven P. Donald, M.S. Date Microbiology Team Leader: Bryan Riley, Ph.D. Date

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/s/

STEVEN P DONALD
09/05/2012

BRYAN S RILEY

BRYAN S RILEY 09/05/2012 I concur.