

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:
22-290

MICROBIOLOGY REVIEW(S)

NDA 22-290, Filing Memo

Additional Comments: The product contains 1% (v/v) benzyl alcohol but the applicant states in the labeling text that the drug product is not preserved. The benzyl alcohol is listed as _____

b(4)

The applicant should be requested to provide the following for microbiology review of the NDA:

1. Current copies of the sterility test method and the bacterial endotoxin test (BET) method in order for the reviewer to adequately assess the sterility and BET specifications.
2. Drug product specific assay validation reports for the sterility test.
3. Drug product specific assay validation reports for the bacterial endotoxin test.
4. The protocol and summary report for the _____ validation for the drug product.
5. Summary reports of the validation of container closure integrity for the maintenance of sterility of the drug product following _____

b(4)

Robert J. Mello, Ph.D. / Reviewing Microbiologist Date

James McVey / Team Leader

Date

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this page is the manifestation of the electronic signature.**

/s/

Robert Mello
5/6/2008 07:31:02 AM
MICROBIOLOGIST

Submission is fileable from Microbiology perspective

James McVey
5/8/2008 02:44:56 PM
MICROBIOLOGIST

Product Quality Microbiology Review

03 September 2008

NDA: 22-290/N-000

Drug Product Name

Proprietary: AdreView™
Non-proprietary: Iobenguane I¹²³ Injection
Drug Product Priority Classification: P

Review Number: 1

Dates of Submission(s) Covered by this Review

Letter	Stamp	Review Request	Assigned to Reviewer
20 MAR 2008	21 MAR 2008	21 MAR 2008	27 MAR 2008
07 JULY 2008	08 JULY 2008	n/a	n/a
16 JULY 2008	18 JULY 2008	n/a	n/a
19 AUG 2008	20 AUG 2008	n/a	n/a

Submission History (for amendments only): N/A

Applicant/Sponsor

Name: GE Healthcare
Address: 101 Carnegie Center
Princeton, NJ 08545
Representative: Fred E. Longenecker
Telephone: 609-514-6573

Name of Reviewer: Robert J. Mello, Ph.D.

Conclusion: The application is recommended for approval from microbiology product quality standpoint.

Product Quality Microbiology Data Sheet

- A.
1. **TYPE OF SUBMISSION:** New Drug Application
 2. **SUBMISSION PROVIDES FOR:** Marketing Approval
 3. **MANUFACTURING SITE:** GE Healthcare
3350 North Ridge Avenue
Arlington Heights, IL 60004
 4. **DOSAGE FORM, ROUTE OF ADMINISTRATION AND STRENGTH/POTENCY:** Sterile Solution, Intravenous injection, 2mCi/ml at calibration. (5ml fill in a 10ml _____) **b(4)**
 5. **METHOD(S) OF STERILIZATION:** _____ **b(4)**
 6. **PHARMACOLOGICAL CATEGORY:** Diagnostic Radiopharmaceutical
- B. **SUPPORTING/RELATED DOCUMENTS:** none
- C. **REMARKS:**
- The ONDQA PAL Initial Quality Assessment was completed on May 1, 2008. The PAL noted that the details of the _____ appeared 'sketchy' and that microbiology consult would be needed. There is a USP monograph for Iobenguane I¹²³ Injection.
 - The submission is in electronic CTD (eCTD) format.
 - It was noted that 1% benzyl alcohol is included in the formula _____ **b(4)**
_____ The label does NOT indicate that the product is preserved.

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Executive Summary

I. Recommendations

- A. Recommendation on Approvability – Recommend Approval
- 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 radiolabeled drug product is

b(4)

- B. Brief Description of Microbiology Deficiencies - None
- C. Assessment of Risk Due to Microbiology Deficiencies – N/A

III. Administrative

- A. Reviewer's Signature _____
Robert Mello, Ph.D.
- B. Endorsement Block _____
Bryan S. Riley, Ph.D.
- C. CC Block
NDA 22-290 file

7 Page(s) Withheld

Trade Secret / Confidential (b4)

Draft Labeling (b4)

Draft Labeling (b5)

Deliberative Process (b5)

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/s/

Robert Mello
9/3/2008 01:53:19 PM
MICROBIOLOGIST

Recommend Approval

Bryan Riley
9/3/2008 01:56:40 PM
MICROBIOLOGIST
I concur.