### **CENTER FOR DRUG EVALUATION AND RESEARCH**

### **Approval Package for:**

**APPLICATION NUMBER:** 

# NDA 017697-S013

- Trade Name: KINEVAC
- Generic Name: Sincalide
- Sponsor: BRACCO
- *Approval Date:* 11/27/2002
- Indications:
   stimulate gallbladder contraction, as may be assessed by various methods of diagnostic imaging, or to obtain by duodenal aspiration a sample of concentrated bile for analysis of cholesterol, bile salts, phospholipids, and crystals;
  - stimulate pancreatic secretion (especially in conjunction with secretin) prior to obtaining a duodenal aspirate for analysis of enzyme activity, composition, and cytology;
  - accelerate the transit of a barium meal through the small bowel, thereby decreasing the time and extent of radiation associated with fluoroscopy and x-ray examination of the intestinal tract.

### CENTER FOR DRUG EVALUATION AND RESEARCH

# APPLICATION NUMBER: NDA 017697-S013

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### **Reviews / Information Included in this NDA Review.**

| Approval Letter                                  | X |
|--|---|
| Other Action Letters                             |   |
| Labeling   |   |
| Summary Review                                   |   |
| Officer/Employee List                            |   |
| Office Director Memo                             |   |
| <b>Cross Discipline Team Leader Review</b>       |   |
| Medical Review(s)                                |   |
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| Environmental Assessment                         |   |
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| Microbiology Review(s)                           |   |
| Clinical Pharmacology/Biopharmaceutics Review(s) |   |
| Risk Assessment and Risk Mitigation Review(s)    |   |
| Proprietary Name Review(s)                       |   |
| Other Review(s)                                  | X |
| Administrative/Correspondence Document(s)        | X |

### CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: NDA 017697-S013

# **APPROVAL LETTER**



**Public Health Service** 

Food and Drug Administration Rockville, MD 20857

NDA 17-697/S-012, S-013, S-014, S-015

Bracco Diagnostics Attention: Melanie Benson, M.S., R.A.C. Director, US Regulatory Affairs P.O. Box 5225 Princeton, New Jersey 08543-5225

Dear Ms. Benson:

Please refer to your supplemental new drug applications dated August 28, 2002, received August 30, 2002, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Kinevac<sup>®</sup> (sincalide) for Injection 5 mcg/vial.

We acknowledge receipt of your submissions dated October 3, October 21, October 23, November 1, November 4, November 8, and November 20, 2002.

These supplemental new drug applications provide for the following:

- 1. Supplement-012 provides for the change in the manufacturing site for the drug product.
- 2. Supplement-013 provides for the change in the formulation for the drug product.
- 3. Supplement-014 provides for the change in the packaging for the drug product.
- 4. Supplement-015 provides for the change in the testing for the drug product.

We completed our review of these applications, as amended. These applications are approved, effective on the date of this letter, for use as recommended in the submitted labeling text.

The final printed labeling (FPL) must be identical to the labeling package insert, vial label, and shipper label submitted August 28, October 3, and as amended on November 4, 2002.

Please submit the FPL electronically according to the guidance for industry titled Providing Regulatory Submissions in Electronic Format – NDA. Alternatively, you may submit 20 paper copies of the FPL as soon as it is available, in no case more than 30 days after it is printed. Please individually mount 10 of the copies on heavy-weight paper or similar material. For administrative purposes, these submissions should be designated "FPL for approved supplements NDA 17-697/S-012, S-013, S-014, S-015." Approval of these submissions by FDA is not required before the labeling is used.

We remind you of your postmarketing study commitments in your submissions dated November 8, 2002 and November 20, 2002.

#### Page 2

These commitments are listed below:

- 1. To set specifications for impurities at the conclusion of the two-year stability study. The proposed specifications will be submitted as a prior approval supplement by March 2005.
- To test the three validation batches (initial timepoint) and the three stability batches
   (18-month timepoint) by both (b)(4)----- to provide comparative data. The results of
   these comparative studies will------ in January 2003 as a prior approval supplement.
- 3. To work with (b)(4)-----to reduce (or eliminate) the (b)(4)------. The status and results will be reported in Annual Reports (July), with the final results being reported in the July 2004 Annual Report.

In addition, submit three copies of the introductory promotional materials that you propose to use for this product. Submit all proposed materials in draft or mock-up form, not final print. Send one copy to this division and two copies of both the promotional materials and the package insert directly to:

Division of Drug Marketing, Advertising, and Communications, HFD-42 Food and Drug Administration 5600 Fishers Lane

If you issue a letter communicating important information about this drug product (i.e., a "Dear Health Care Professional" letter), we request that you submit a copy of the letter to this NDA and a copy to the following address:

MEDWATCH, HF-2 FDA 5600 Fishers Lane

We remind you that you must comply with reporting requirements for an approved NDA (21 CFR 314.80 and 314.81).

Although, not approvability issues, we have the following comment and recommendation.

In the draft labeling, you have removed the periods after the N and J in N.J. to read as NJ except in the draft shipper label. For consistency, consider making this editorial change throughout the labeling.

Page 3

If you have any questions, call Betsy Scroggs, Pharm. D., Consumer Safety Officer, at (301) 827-1250.

Sincerely,

{See appended electronic signature page}

Robert L. Justice, M.D., M.S. Director Division of Gastrointestinal and Coagulation Drug Products Office of Drug Evaluation III Center for Drug Evaluation and Research

\_\_\_\_\_

/s/

Robert Justice 11/27/02 03:08:22 PM

### CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: NDA 017697-S013

## **CHEMISTRY REVIEW(S)**

| CHEMIST'S REVIEW #2   | 1. Organization: HFD-180                    | 2. <u>NDA Number:</u> 17-697   |             |
|---|---|--|-------------|
| 3. <u>Name and Address of Applicant (City &amp; State):</u><br>Bracco Diagnostics<br>P.O. Box 5225<br>Princeton, NJ                       |   | 4. <u>AF Number:</u>   |             |
| ·   |   | 5. <u>Supplement(s)</u>  |             |
| 6. <u>Name of Drug:</u><br>Kinevac® for injection   | 7. <u>Nonproprietary Name:</u><br>sincalide | Numbers         Dates           SCM-012         August 28, 2002           SCF-013         August 28, 2002           SCP-014         August 28, 2002           SCS-015         August 28, 2002  |             |
| <ol> <li><u>Supplement Provides for:</u><br/>Change in formulation, manufacturing site and process, test<br/>methods</li> </ol>           |   | 9. Amendments and Other (Reports, etc.) DaSCM-012BCNovember 8, 2002BC, CNovember 20, 2002SCF-013BCNovember 8, 2002BC, CNovember 20, 2002SCP-014BCNovember 8, 2002BC, CNovember 20, 2002 | <u>tes:</u> |
| 10. Pharmacological Category:   | 11. How Dispensed:                          | 12. Related IND/NDA/DMF(s):  |             |
| gallbladder contraction stimulat<br>for diagnostic testing  |   |  |             |
| 13. <u>Dosage Form:</u><br>parenteral   | 14. <u>Potency</u> :<br>5 μg/vial           |  |             |
| 15. <u>Chemical Name and Structure:</u><br>cholecystokinin octapeptide<br>Asp-Tyr(SO3H)-Met-Gly-Trp-Met-Asp-Phe-NH2                       |   | 16. Records and Reports:   |             |
| озоун СН <sub>3</sub> СН <sub>3</sub><br>соон СС сн 2<br>сн 2<br>сн 2<br>сн 2<br>сн 2<br>сн 2<br>сн 2<br>сн 2                             |   | Current Yes No   |             |
|   |   | Reviewed<br>Yes No   |             |
| 17. <u>Comments</u> : See Review Notes<br>cc: NDA 17-697<br>HFD-180/Div File<br>HFD-180/BScroggs<br>HFD-180/MKowblansky<br>HFD-180/ LZhou |   |  |             |
| 18. <u>Conclusions and Recommendations</u> : This supplement should be approved with the  |   |  |             |
| 19. Reviewer  |   |  |             |
| Name: Marie Kowblansky, Ph.D.   | Signature:                                  | Date Completed: 11/20/02   |             |

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/s/ Marie Kowblansky 11/20/02 06:01:54 PM CHEMIST

Liang Zhou 11/21/02 01:14:37 PM CHEMIST

| CHEMIST'S REVIEW #2  | 1. Organization: HFD-180                    | 2. <u>NDA Number:</u> 17-697  |
|--|---|---|
| 3. <u>Name and Address of Applicant (City &amp; State):</u><br>Bracco Diagnostics<br>P.O. Box 5225<br>Princeton, NJ  |   | 4. <u>AF Number:</u>  |
|  |   | 5. <u>Supplement(s)</u>   |
| <ol> <li><u>Name of Drug:</u><br/>Kinevac® for injection</li> </ol>  | 7. <u>Nonproprietary Name:</u><br>sincalide | Numbers         Dates           SCM-012         August 28, 2002           SCF-013         August 28, 2002           SCP-014         August 28, 2002           SCS-015         August 28, 2002 |
| 8. <u>Supplement Provides for:</u><br>Change in formulation, manufacturing site and process, test<br>methods   |   | 9. Amendments and Other (Reports, etc.) Dates:<br>SCM-012BCNovember 8, 2002SCF-013BCNovember 8, 2002SCP-014BCNovember 8, 2002SCS-015BCNovember 8, 2002  |
| 10. Pharmacological Category:  | 11. How Dispensed:                          | 12. <u>Related IND/NDA/DMF(s):</u>  |
| gallbladder contraction stimula for diagnostic testing   | ator R <sub>x</sub> _√_OTC                  |   |
| 13. <u>Dosage Form:</u><br>parenteral  | 14. <u>Potency</u> :<br>5 μg/vial           |   |
| 15. <u>Chemical Name and Structure:</u><br>cholecystokinin octapeptide<br>Asp-Tyr(SO3H)-Met-Gly-Trp-Met-Asp-Phe-NH2  |   | 16. Records and Reports:  |
| озоун СН, СН, СН,<br>СССН СН 2<br>СССН СН 2<br>СН2<br>СН2<br>СН2<br>Н2<br>Н2<br>Н2<br>СН-СО-ИН-СН-СО-ИН-СН-СО-ИН-СН-СО-ИН-СН-СО-ИН-СН-СО-ИН2                                 |   | Current<br>YesNo<br>Reviewed  |
|  |   | YesNo   |
| 17. <u>Comments</u> : See Review Notes<br>cc: NDA 17-697<br>HFD-180/Div File<br>HFD-180/BScroggs<br>HFD-180/MKowblansky<br>HFD-180/ LZhou                                    |   |   |
| 18. Conclusions and Recommend  | ations:                                     |   |
| This supplement is approvable (with an 18-month expiration for the product) pending resolution of the issue cited in the Draft Deficiency letter (at the end of the review). |   |   |
| 19. <u>Reviewer</u>  |   |   |
| Name: Marie Kowblansky, Ph.D.  | Signature:                                  | Date Completed: 11/15/02  |

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/s/ Marie Kowblansky 11/19/02 01:17:30 PM CHEMIST

Liang Zhou 11/19/02 01:44:16 PM CHEMIST

| CHEMIST'S REVIEW #1  | 1. Organization: HFD-180                    | 2. NDA Numbe  | <u>r:</u> 17-697  |
|--|---|---|---|
| 3. <u>Name and Address of Applicant (City &amp; State):</u><br>Bracco Diagnostics<br>P.O. Box 5225<br>Princeton, NJ  |   | 4. <u>AF Number:</u>                                |   |
|  |   | 5.Supplement(s                                      | <u>s)</u>   |
| 6. <u>Name of Drug:</u><br>Kinevac® for injection  | 7. <u>Nonproprietary Name:</u><br>sincalide | Numbers<br>SCM-012<br>SCF-013<br>SCP-014<br>SCS-015 | Dates<br>August 28, 2002<br>August 28, 2002<br>August 28, 2002<br>August 28, 2002 |
| 8. <u>Supplement Provides for:</u><br>Change in formulation, manufacturing site and process, test  |   | 9. <u>Amendments</u>                                | s and Other (Reports, etc.) Dates:  |
| methods  |   |   | October 21, 2002  |
| 10. Pharmacological Category:  | 11. How Dispensed:                          | 12. Related INE                                     | D/NDA/DMF(s):   |
| gallbladder contraction stimula<br>for diagnostic testing  | ttor R <sub>x</sub> _√_OTC                  |   |   |
| 13. <u>Dosage Form:</u><br>parenteral  | 14. <u>Potency</u> :<br>5 μg/vial           |   |   |
| 15. <u>Chemical Name and Structure</u><br>cholecystokinin octapeptide<br>Asp-Tyr(SO3H)-Met-Gly-Trp-Met-A   | -   | 16. Records an                                      | d Reports:  |
|  |   | Current<br>Yes                                      | No  |
|  |   | Reviewed  |   |
|  |   | Yes   | No  |
| 17. <u>Comments</u> : See Review Note  | 25  |   |   |
| cc: NDA 17-697/SCM012<br>HFD-180/Div File<br>HFD-180/BScroggs<br>HFD-180/MKowblansky<br>HFD-180/ LZhou   |   |   |   |
| 18. <u>Conclusions and Recommendations</u> :   |   |   |   |
| This supplement is approvable (with an 18-month expiration for the product) pending resolution of the issues cited<br>in the Draft Deficiency letter (located at the end of the review) and completion of the Medical, Pharm/Tox, and<br>Biopharm reviews. |   |   |   |
| 19. <u>Reviewer</u>  |   |   |   |
| Name: Marie Kowblansky, Ph.D.  | Signature:                                  | Da  | te Completed: 10/16/02  |

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/s/ Marie Kowblansky 10/28/02 01:06:31 PM CHEMIST

Liang Zhou 10/28/02 01:26:16 PM CHEMIST

### CENTER FOR DRUG EVALUATION AND RESEARCH

# APPLICATION NUMBER: NDA 017697-S013

# **OTHER REVIEW(S)**

#### **Division of Gastrointestinal & Coagulation Drug Products**

#### **REGULATORY PROJECT MANAGER REVIEW**

Application Number: NDA 17-697/S-012, S-013, S-014, S-015

Name of Drug: Kinevac<sup>®</sup> (sincalide) for Injection 5 mcg/vial

Sponsor: Bracco Diagnostics Inc.

### Materials Reviewed

| Submission Date                       | Receipt Date     |
|---------------------------------------|------------------|
| August 28, 2002                       | August 30, 2002  |
| October 3, 2002                       | October 4, 2002  |
| October 21, 2002 facsimile            | October 21, 2002 |
| October 21, 2002 (hardcopy            | October 22, 2002 |
| submission for document received via  |                  |
| facsimile on October 21, 2002)        |                  |
| October 23, 2002 facsimile            | October 23, 2002 |
| October 23, 2002 (hardcopy            | October 29, 2002 |
| submission for document received via  |                  |
| facsimile on October 23, 2002)        |                  |
| November 1, 2002 facsimile            | November 1, 2002 |
| November 4, 2002 facsimile            | November 4, 2002 |
| November 4, 2002 (hardcopy            | November 7, 2002 |
| submission for documents received via |                  |
| facsimile on November 1 and           |                  |
| November 4, 2002.                     |                  |
| November 8, 2002 facsimile            | November 8, 2002 |

**Background and Summary Description:** NDA 17-697 is approved for use in stimulation of gallbladder contraction and pancreatic secretion and/or intestinal motility for diagnostic purposes.

Kinevac<sup>®</sup> was approved on July 21, 1976 for E. R. Squibb and Sons, Inc. Bracco Diagnostics Inc acquired Kinevac<sup>®</sup> in 1994. E. R. Squibb and Sons, Inc. continued to manufacture the product for Bracco Diagnostics Inc. Bracco Diagnostics Inc notified the Agency that the firm had lost its drug substance manufacturer and drug product manufacturer as of June 30, 2001 thus creating a drug shortage of Kinevac<sup>®</sup>. On September 21, 2001 the Agency determined that Kinevac<sup>®</sup> was a medically necessary product.

Supplement -011, submitted on January 21, 2002 provides for a new drug substance manufacturer. The Division approved S-011 on October 29, 2002.

Supplement -012, submitted on August 28, 2002, provides for a change in manufacturing site, formulation, packaging, and testing of the drug product. An expedited review was requested by the firm and granted by the Division.

To delineate all of the proposed changes in the supplement, the Division administratively split S-012 into four supplements as follows:

- 1. Supplement-012 provides for the change in the manufacturing site for the drug product.
- 2. Supplement-013 provides for the change in the formulation for the drug product.
- 3. Supplement-014 provides for the change in the packaging for the drug product.
- 4. Supplement-015 provides for the change in the testing for the drug product.

On October 3, 2002, the firm submitted three enlarged copies of the proposed shipper label identical to that provided in the original August 28, 2002 submission in response to request by the Division.

On October 11, 2002, the Division issued a Chemistry Information Request letter. On October 21 and October 23, 2002, the firm submitted, by facsimile, draft amendments in response to the Division's October 11, 2002 Information Request letter.

On October 30, 2002, the Division issued a Chemistry Discipline Review letter (DR). The firm responded on November 1, 2002 by facsimile. This facsimile contained, as a follow-up from the October 30, 2002 DR, questions to be addressed in the teleconference that was scheduled for November 4, 2002.

Prior to the scheduled November 4, 2002 teleconference, the firm submitted by facsimile, additional proposed labeling revisions.

Following the November 4, 2002 teleconference, the firm submitted by facsimile, additional proposed labeling revisions.

This supplement has also been reviewed by the following disciplines: Clinical (see Medical Officer review dated November 1, 2002) Pharmacology (see Pharmacology review dated November 1, 2002) Chemistry (See Chemistry review dated October 28, 2002) Microbiology (see Microbiology review dated October 21, 2002) Biopharmaceutics (See Biopharmaceutics review dated November 6, 2002)

\_\_\_\_\_

/s/ Betsy Scroggs 11/21/02 02:42:31 PM CSO

Joyce Korvick 11/22/02 10:29:47 AM MEDICAL OFFICER for Dr. Robert Justice

### CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: NDA 017697-S013

## ADMINISTRATIVE and CORRESPONDENCE DOCUMENTS

#### MEMORANDUM OF TELECON

#### DATE: November 4, 2002

#### APPLICATION NUMBER: NDA 17-697/SCM-012, SCF-013, SCP-014, SCS-015

#### **BETWEEN**:

Name: Larry Callan (Senior Director, Regulatory Affairs) Richard Hunt (Associate Director, Regulatory Affairs) Melanie Benson (Director, US Regulatory Affairs)

Phone: (609) 514-2262

Representing: Bracco Diagnostics Inc.

#### AND

Name: Liang Zhou (Chemistry Team Leader) Marie Kowblansky (Chemistry Reviewer) Alice Kacuba (Regulatory Health Project Manager) Betsy Scroggs (Consumer Safety Officer)

Representing: Division of Gastrointestinal and Coagulation Drug Products, HFD-180

SUBJECT: To discuss how to deal with <sup>(b) (4)</sup> impurities in the new drug formulation.

BACKGROUND: NDA 17-697 is approved for use in stimulation of gallbladder contraction and pancreatic secretion and/or intestinal motility for diagnostic purposes.

Kinevac<sup>®</sup> was approved on July 21, 1976 for E. R. Squibb and Sons, Inc. Bracco Diagnostics Inc acquired Kinevac<sup>®</sup> in 1994. E. R. Squibb and Sons, Inc. continued to manufacture the product for Bracco Diagnostics Inc. Bracco Diagnostics Inc notified the Agency that the firm had lost its drug substance manufacturer and drug product manufacturer as of June 30, 2001 thus creating a drug shortage of Kinevac<sup>®</sup>. On September 21, 2001 the Agency determined that Kinevac<sup>®</sup> was a medically necessary product.

Supplement -011, submitted on January 21, 2002 provided for a new drug substance manufacturer and was approved October 29, 2002.

Supplement -012, submitted on August 28, 2002, provides for a change in manufacturing site, formulation, packaging, and testing of the drug product. An expedited review was requested by the firm and granted by the Division.

To delineate all of the proposed changes in the supplement, the Division administratively split S-012 into four supplements as follows:

- 1. Supplement-012 provides for the change in the manufacturing site for the drug product.
- 2. Supplement-013 provides for the change in the formulation for the drug product.
- 3. Supplement-014 provides for the change in the packaging for the drug product.
- 4. Supplement-015 provides for the change in the testing for the drug product.

#### SUMMARY OF TODAY'S CALL:

The reason for today's telephone conversation is to discuss and answer questions faxed by the firm on November 1, 2002 in response to the Division's October 30, 2002 Discipline Review (DR) letter.

The firm's questions related to the DR letter deficiencies numbers 1, 3, and 8 are below:

- 1. We have provided information on the source of the <sup>(b)(4)</sup> impurities in our October 23 submission. Do you need additional information? If yes, can you be more specific in your request?
- 3. (b)(4)
  We understand that the FDA is requesting us to conduct additional (b)(4)
  We need to determine for which batches of Kinevac we need to perform the (b)(4) In our October 23 response we indicated we would test the initial three validation batches using the (b)(4). We could also test the three stability batches which are now at the 18-months timepoint. Will this satisfy the Agency for the additional (b)(4)?
  8. Based on you comment, we plan to eliminate the (b)(4)
  - Does the Agency have any comments on our plan?

Outcome: Following a lengthy discussion, the firm agreed to the following pending discussion with their upper management and would send the submission within one week.

1. To set specifications for impurities at the conclusion of the two-year stability study. The proposed specifications will be submitted as a prior approval supplement by March 2005.

- 2. To test the three validation batches (initial timepoint) and the three stability batches (18-month timepoint) by (b) (4), to provide comparative data. The results of these comparative studies will be provided to FDA in January 2003 as a prior approval supplement.
- 3. Ben Venue proposes to immediately initiate a project to investigate possible paths of product exposure and evaluate production and/or engineering controls that may provide improved control of, and perhaps minimize the concentration of, these

<sup>(b) (4)</sup> Because of the extensive validation work that may be involved, it is possible that it could take up to a year or more to complete this project. The status and results of this project would be reported in Annual Report (July).

Respectfully submitted,

Betsy Scroggs

cc:

Archival NDA 17-697 HFD 180 Division Files HFD 180 L. Zhou/ M. Kowblansky Drafted by: BHS/ November 22, 2002 Initialed by:A. Kacuba/November 22, 2002 Final:B. Scroggs/ November 25, 2002 Filename:C:\Documents and Settings\scroggsb\My Documents\NDA 17-697 Kinevac\Supp012\MEMORANDUM OF TELECON 1104.doc

\_\_\_\_\_

/s/ Betsy Scroggs 11/25/02 10:20:55 AM CSO



Food and Drug Administration Center for Drug Evaluation and Research Office of Drug Evaluation ODE III

#### FACSIMILE TRANSMITTAL SHEET

**DATE:** November 19, 2002

| To: Melanie Benson                               | From: Alice Kacuba, RN, MSN, RAC           |
|--|--|
|  | Regulatory Health Project Manager          |
| <b>Company:</b> Bracco Diagnostics               | Division of Division of Gastrointestinal & |
|  | Coagulation Drug Products                  |
| <b>Fax number:</b> (609) 514-2539                | <b>Fax number:</b> (301) 827-1305          |
| <b>Phone number:</b> (908) 240-1989              | <b>Phone number:</b> 301-827-1602          |
| <b>Subject:</b> Post approval commitment for NDA | 17-697/S-012 S-013 S-014 S-015             |

Total no. of pages including cover:

**Comments:** Attached is a request regarding the above supplements.

Document to be mailed:

**U**YES

☑ NO

THIS DOCUMENT IS INTENDED ONLY FOR THE USE OF THE PARTY TO WHOM IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL, AND PROTECTED FROM DISCLOSURE UNDER APPLICABLE LAW.

If you are not the addressee, or a person authorized to deliver this document to the addressee, you are hereby notified that any review, disclosure, dissemination, copying, or other action based on the content of this communication is not authorized. If you have received this document in error, please notify us immediately by telephone at (301) 827-1602. Thank you.

In order to complete our action for S-012, S-013, S-014, S-015, we request a written commitment from you:

Please delete the specifications for <sup>(b) (4)</sup> from the drug product specifications. Instead, provide a post-approval commitment that Bracco will work with Ben Venue to eliminate or minimize these contaminants.

Please include a timeframe with your commitment.

Please submit your response as soon as possible as an amendment to NDA 17-697/S-012, S-013, S-014, S-015.

A fax response is acceptable, providing that it includes a signed 1571 form and the fax is followed by a hardcopy submission.

\_\_\_\_\_

/s/ Alice Kacuba 11/19/02 02:30:46 PM CSO



Food and Drug Administration Rockville, MD 20857

#### NDA 17-697/S-012, S-013, S-014, S-015

#### **DISCIPLINE REVIEW LETTER**

Bracco Diagnostics Attention: Melanie Benson, M.S., R.A.C. Director, US Regulatory Affairs P.O. Box 5225 Princeton, New Jersey 08543-5225

Dear Ms. Benson:

Please refer to your August 28, 2002 supplemental new drug application submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Kinevac<sup>®</sup> (sincalide) for Injection, 5mcg/vial.

We also refer to your submission dated October 3, October 21, and October 23, 2002.

Our review of the Chemistry, Manufacturing, and Controls section of your submission is complete, and we have identified the following deficiencies:

- 1. Please identify the source of <sup>(b)(4)</sup> impurities.
- Please report the levels of the identified samples on stability testing, as well as This should be in addition to the total reported. In terms of setting specifications for these impurities, either of the following options will be acceptable:
  - a) report the individual impurities as "information only" for the first three post approval batches on stability testing and commit to set specifications for these impurities at the conclusion of the stability studies as a prior approval supplement.
  - b) set specifications for each of the identified impurities now, based on the stability data that have already been submitted, and make changes as necessary as a prior approval supplement.

When the individual impurities are reported, please also submit representative mass spectra for each of the <sup>(b)(4)</sup> impurities that have been identified.

3. Since the <sup>(b) (4)</sup> will need to be included in the proposed specifications. To allow

4.

| <sup>(b) (4)</sup> , we will need to e        | valuate the correlation between the results  |
|---|--|
| from  | <sup>(b) (4)</sup> for samples on            |
| stability testing. Data for the three batches | s currently on stability testing should be   |
| sufficient for this purpose. A prior approv   | al supplement will need to be submitted to   |
| accomplish this.                              | <sup>(b) (4)</sup> data for each of the      |
| batches at release and at the proposed exp    | ry date of 18 months should be sufficient to |
| support the request. (This approach is bei    | ng suggested as an alternative to the        |
| (o) (4) on post                               | approval batches, suggested in our facsimile |
| information request communication of Oc       |  |
| recommend that you contact the                | (b) (4)                                      |
|   | (h) (h)                                      |

- 5. The <sup>(b)(4)</sup> limit should be lowered to reflect levels observed in your batch test data.
- 6. The Stability Protocol should be amended to include sterility testing at expiry.
- 7. The submitted stability data support an eight hour storage time for product reconstituted with water.

The label should be revised to only recommend storage conditions that can be supported by data.

8. Please be aware that it is not a requirement to set specifications for excipients in the finished product, unless there is a specific reason to do so.

We are providing these comments to you before we complete our review of the entire application to give you <u>preliminary</u> notice of issues that we have identified. In conformance with the prescription drug user fee reauthorization agreements, these comments do not reflect a final decision on the information reviewed and should not be construed to do so. These comments are preliminary and subject to change as we finalize our review of your total application. In addition, we may identify other information that must be provided before we can approve this application. If you respond to these issues during this review cycle, depending on the timing of your response, and in conformance with the user fee reauthorization agreements, we may not be able to consider your response before we take an action on your application during this review cycle.

Please note that we have administratively split your suplemental NDA into 4 separate supplements.

- 1. S-012 provides for the change in the manufacturing site for the drug product.
- 2. S-013 provides for the change in formulation for the drug product.
- 3. S-014 provides for the change in packaging for the drug product.
- 4. S-015 provides for the change in the testing for the drug product.

Any response to this Discipline Review Letter should reference all 4 supplements.

If you have any questions, call Betsy Scroggs, Pharm.D., Consumer Safety Officer, at 301-827-1250.

Sincerely,

{See appended electronic signature page}

Liang Zhou, Ph.D. Chemistry Team Leader for the Division of Gastrointestinal and Coagulation Drug Products (HFD-180) DNDC II, Office of New Drug Chemistry Center for Drug Evaluation and Research

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/s/

Liang Zhou 10/30/02 03:01:18 PM