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**APPROVAL PACKAGE FOR:**

**APPLICATION NUMBER**

**21-372**

**Microbiology Review(s)**

**Product Quality Microbiology Review**  
**Review for HFD-180**  
**May 12, 2003**

**NDA: 21-372**

**Drug Product Name**

**Proprietary:**

**Non-proprietary:** Palonosetron Hydrochloride Injection

**Drug Product Classification:** anti emetic

**Review Number: 1**

**Subject of this Review**

**Submission Date:** September 26, 2002

**Receipt Date:**

**Consult Date:** October 25, 2003

**Date Assigned for Review:** November 7, 2002

**Submission History (for amendments only):**

**Applicant/Sponsor**

**Name:** Helsinn Healthcare SA

**Address:** Via Plan Scaiolo

6912 Pazzallo (Lugano) - Switzerland

**Representative:**

**Telephone:**

**Authorized Agent:** Dr. Craig Lehmann

August Consulting Inc.

515 Capitol of Texas Highway, Suite 150

Austin, TX 78746

(512) 347-1755

**Name of Reviewer:** James L. McVey

**Conclusion:** This application is recommended for approval from a product quality microbiology perspective.

## Product Quality Microbiology Data Sheet

- A. 1. **TYPE OF SUPPLEMENT:**
2. **SUPPLEMENT PROVIDES FOR:**
3. **MANUFACTURING SITE:** The drug product will be manufactured, tested for release and for stability and released for commercial use by:

Additional testing site:

Additional site:

Helsinn Birex Pharmaceuticals Ltd.  
Damastown  
Mulhuddart – Dublin 15  
Ireland

4. **DOSAGE FORM, ROUTE OF ADMINISTRATION AND STRENGTH/POTENCY:** 0.25 mg/ 5 mL vial for intravenous administration.
5. **METHOD(S) OF STERILIZATION:** The product is followed by sterilization..
6. **PHARMACOLOGICAL CATEGORY:** anti emetic
- B. **SUPPORTING/RELATED DOCUMENTS:**  
DMF (16063) for drug substance – not reviewed for product quality microbiology.
- C. **REMARKS:** Well organized and assembled application.

filename: 21372r1

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## **Executive Summary**

### **I. Recommendations**

- A. Recommendation on Approvability** – This application is recommended for approval from a product quality microbiology perspective.
- B. Recommendations on Phase 4 Commitments and/or Agreements, if Approvable -**

### **II. Summary of Microbiology Assessments**

- A. Brief Description of the Manufacturing Processes that relate to Product Quality Microbiology** – The product is — sterilized to —  
— sterilized with a validated —

- B. Brief Description of Microbiology Deficiencies** – None.
- C. Assessment of Risk Due to Microbiology Deficiencies** – Minimal risk is seen from a product quality microbiology perspective.

### **III. Administrative**

- A. Reviewer's Signature** \_\_\_\_\_
- B. Endorsement Block**  
Review Microbiologist. J.L. McVey  
Microbiology Supervisor. P.H. Cooney
- C. CC Block**  
cc:  
DFS  
HFD- 805/McVey/21372r1

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