

**CENTER FOR DRUG EVALUATION AND  
RESEARCH**

*APPLICATION NUMBER:*

**75-188**

**ADMINISTRATIVE DOCUMENTS**

OFFICE OF GENERIC DRUGS  
DIVISION OF BIOEQUIVALENCE

ANDA: #75-188

SPONSOR: Alphapharm PTY. LTD.

Drug: Amiodarone HCl

DOSAGE FORM: Tablets

STRENGTH: 200 mg

TYPE OF STUDY: Single-dose, Fasting Study

CLINICAL SITE:

ANALYTICAL SITE:

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STUDY SUMMARY:

The single-dose bioequivalence study conducted under fasting conditions was found acceptable by the Division of Bioequivalence.

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DISSOLUTION:

The dissolution testing was found acceptable.

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PRIMARY REVIEWER: F. Nouravarsani BRANCH: III

SIGNATURE:     / S /    

DATE: 9/11/98

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Acting Team Leader: B. Davit

BRANCH: III

SIGNATURE:     / S /    

DATE: 9/2/98

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DIRECTOR: Dale P. Conner

DIVISION OF BIOEQUIVALENCE:

SIGNATURE:     / S /    

DATE: 9/19/98

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DIRECTOR: Doug Sporn

OFFICE OF GENERIC DRUGS:

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_



The related substance assay method was found to have selectivity and sensitivity for the semi-quantitation of 2-butyl-3-(4-hydroxy-3,5-diodobenzoyl)benzofuran, mono iodo amiodarone, bis desiido amiodarone and (2-chloroethyl)diethylamine hydrochloride ( pp. 3286 -

The limits of detection are of the limits concentration for 2-butyl-3-(4-hydroxy-3,5-diodobenzoyl)benzofuran and (2-chloroethyl)diethylamine hydrochloride, of the limit concentration for mono iodo amiodarone and bis desiido amiodarone, and of the ½ limit concentration for multiple unknown impurities. The method was found to be stability indicating (pp. 3286 - 3299). It is noted that the "photographs" of the plates presented range from poor to illegible copies (pp. 3288 -3299)

The residual solvents were found to have selectivity and sensitivity for the quantitation of ethanol, acetone, and dichloromethane in the presence of 100% drug substance.

It is noted that chloroform gave results linear and precise, but had a poor recovery: . The firm recommended that the limit for chloroform be reduced from NMT to NMT to allow for the poor recovery (pp. 3300 -3306).

STABILITY - ARE CONTAINERS USED IN STUDY IDENTICAL TO THOSE IN CONTAINER SECTION?

Yes, as per the following configuration:

Batch No.	Container/closure	Storage	Time stations
PM009	1000's in 500 mL bottle	30°C (pp. 89 - 90)	6, 9 & 12 months
		40°C/75% RH (p. 91)	6 months

PM009A	60's in 40 mL ----- bottle	30°C (pp. 92 - 93)	6, 9 & 12 months
		40°C/75% RH (p. 94)	6 months
PM009B	Blisters (250 µm, 40g/m <sup>2</sup> )	30°C (pp. 95 -96)	6, 9 & 12 months
		40°C/75% RH (p. 97)	6 months
PM009C	Bulk, 20 L container	20°C (p. 99)	6 months
PM009C*	Bulk, 4 L container	25°C/60 RH (p. 98)	6 months

2. Please find appended the revised Stability Specifications.

LABELING:

A telephone amendment was submitted to the firm on October 23, 1998. Satisfactory. See review dated 11/24/98.

STERILIZATION VALIDATION (IF APPLICABLE)

N/A

SIZE OF BIO BATCH - (FIRM'S SOURCE OF NDS O.K.?)

units, executed batch record, lot No. PM009.

Amiodarone Hydrochloride, DMF  
found adequate on 12/19/97

SIZE OF STABILITY BATCHES - (IF DIFFERENT FROM BIO BATCH WERE THEY MANUFACTURED VIA SAME PROCESS?)

Same size, tablets and batch.

PROPOSED PRODUCTION BATCH - MANUFACTURING PROCESS THE SAME AS BIO/STABILITY?

units, same process.

RECOMMENDATION:

Approvable.

SIGNATURE:

A. Croitoru

*[Handwritten signature]*  
1/12/99

DATE: January 14, 1999

COMPONENTS AND COMPOSITION

The following qualitative and quantitative statements are presented:

AMIODARONE Components	mg/tablet
LACTOSE MONOHYDRATE	125.0 mg



Related substances			
Iodides		%	
Heavy metals			
Loss on drying			
Sulfated ash			
Assay			
Particle size			
Residual Solvents			

Drug product test, specification and test results  
for the executed batch No. PM009:

Test	Specification	Result
Appearance		
Uniformity of tablet weight (BP93 p. 753)		
Identification (BP93 Add. 95 p. 1629)		
Related substances (in- house)		
Uniformity of dosage units (USP XXIII p. 1838)		
Assay (BP93 Add. 95 p. 1629)		

Dissolution  
(in-house)

cc: ANDA 75-188

Endorsements:

HFD-645/ACroitoru/1/14/99

HFD-645/BTArnwine/1/19/99

**R. & D. STABILITY SPECIFICATION**

**AMIODARONE HYDROCHLORIDE TABLETS 200 mg**  
(contains 200 mg Amiodarone Hydrochloride)

AMIUS200.RS

PAGE 1 OF 1

Doc.No.: RDLSS-04-365/200-3(US)	Supercedes: RDLSS-04-365/200-2(US)	Rev: 01/2004
R.M. No: 365	Pharmacopoeial Reference: BP 1993 Addendum 95	
Prepared by: <i>[Signature]</i> Date: 07.01.99	Checked by: <i>ALHew</i> Date: 7/1/99	Approved by: <i>[Signature]</i> Date: 7/1/99

Specification for: USA

TEST

SPECIFICATION

**ORIGINAL**

1. APPEARANCE:

2. IDENTIFICATION:  
(BP93 Add 95 p1629)

3. DISSOLUTION:  
(OGD,CDER Mar 97)

4. RELATED SUBSTANCES:  
(BP93 Add 95 p1629;  
In-house mod.)

5. AVERAGE TABLET WEIGHT:

6. ASSAY:  
(In-house)

002

R. & D. STABILITY

RECORD OF MASTER DOCUMENT UPDATES (CONTINUED)

PRODUCT: Amiodarone HCl Tablets  
200 mg

MASTER DOCUMENT NO.: RDLS-04-365/200(US)  
AMIUS200.RFU

DATE	DOCUMENT NO/S	REASON FOR UPDATE
1/97	RDLST-04-365/200-1(US) RDLSA-04-365/200-1(US)	1.  2.  3.
3/97	RDLSS-04-365/200-1(US) RDLST-04-365/200-2(US)	1. 2.
6/97	RDLSA-04-365/200-2(US)	1.
7/97	RDLSS-04-365/200-2(US)	1. 2.
7/97	RDLST-04-365/200-3(US)	1.
10/97	RDLST-04-365/200-4(US)	1.
1/99	RDLSS-04-365/200-3(US)	1.

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