

K083674  
p1/2

# PK-141 Patient Cable

## 510(k) Premarket Notification

APR -1 2009

### 1. PATIENT CABLE 510(K) SUMMARY

**Name and Address of Applicant:** BIOTRONIK, Inc.  
6024 Jean Road  
Lake Oswego, OR 97035

**Establishment Registration Number:** 1028232

**Device Name:** Proprietary Name: PK-141  
Common Name: Programmer,  
Pacemaker (Accessories)  
Classification: Class II (21 CFR 870.3700)  
Classification Name: Cabling  
Product Code: KRG

**510(k) Number:** K022360

**Date Prepared:** December 10, 2008

#### General Description:

The PK-141 patient cable is compatible with the following BIOTRONIK external equipment: ICS 3000 Implant Control System, EDP 20/30 B External Pacemakers, and ERA 300/3000 Pacing System Analyzers. The PK-141 is intended to connect to the patient's sensing and pacing leads. The PK-141 is connected to the Redel connector provided by the external equipment and the alligator clips connect to the electrode.

The PK-141 is made up of a 2.8m cable with four touch-proof alligator clips. The alligator clips are clamped directly to the tip or the contact ring of the leads. During its use, the cable is in the sterile field; therefore it must be sterile itself. Skin contact with the patient is not anticipated.

#### Predicate Device:

BIOTRONIK proposes the following programmer accessory cleared through 510(k) notification as the predicate device for the PK-141 cable:

- BIOTRONIK's PK-67-L (K022360 ERA 3000 Dual Chamber Pacing Analyzer, cleared January 27, 2003)

#### Indications for Use:

The PK-141 patient cable is an accessory indicated for use with external equipment from BIOTRONIK and is used for the transmission of sensing signals and pacing pulses for diagnostics and therapy in the context of intracardiac examinations including the following activities:

- Temporary External Pacing  
Provides temporary stimulation during implantable pacemaker procedures or physician evaluations.
- Lead Threshold Determination  
Determines in situ lead characteristics of impedance, capture threshold, P/R wave amplitude and P/R wave slew rate. Determines the in vivo retrograde conduction time.
- Pacemaker Function Test

K083674  
p 2/2

Tests and analyzes the in vitro operation of external or implantable pulse generators. Determines the following parameters: pulse amplitude and width, AV delay, and rate/interval.

**Name and Address of Manufacturing Site:**

BIOTRONIK GmbH & Co. KG  
Woermannkehre 1  
D-12359 Berlin, Germany

**Manufacturer's Establishment Registration Number**

9610139

**510(k) Contact Person and Phone Number:**

Jon Brumbaugh  
Vice President, Regulatory Affairs and Compliance  
BIOTRONIK, Inc.  
6024 Jean Road  
Lake Oswego, OR 97035  
(888) 345-0374



Food and Drug Administration  
10903 New Hampshire Avenue  
Document Control Room –WO66-G609  
Silver Spring, MD 20993-0002

MAR 29 2011

BIOTRONIK, Inc  
c/o Mr. Jon Brumbaugh  
Vice President, Regulatory Affairs and Compliance  
6024 Jean Road  
Lake Oswego, OR 97035

Re: K083674

Trade/Device Name: PK-141 Patient Cable  
Regulation Number: 21 CFR 870.3630  
Regulation Name: Analyzer, Pacemaker Generator Function  
Regulatory Class: II  
Product Code: DTC  
Dated: March 25, 2009  
Received: March 26, 2009

Dear Mr. Brumbaugh:

This letter corrects our substantially equivalent letter of April 1, 2009.

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In

Page 2- Mr. Brumbaugh

addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to <http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucml15809.htm> for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,



Bram D. Zuckerman, M.D.  
Director  
Division of Cardiovascular Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known): K083674

Device Name: PK-141 Patient Cable

### Indications For Use:

The PK-141 patient cable is an accessory indicated for use with external equipment from BIOTRONIK and is used for the transmission of sensing signals and pacing pulses for diagnostics and therapy in the context of intracardiac examinations including the following activities:

- **Temporary External Pacing**

Provides temporary stimulation during implantable pacemaker procedures or physician evaluations.

- **Lead Threshold Determination**

Determines in situ lead characteristics of impedance, capture threshold, P/R wave amplitude and P/R wave slew rate. Determines the in vivo retrograde conduction time.

- **Pacemaker Function Test**

Tests and analyzes the in vitro operation of external or implantable pulse generators. Determines the following parameters: pulse amplitude and width, A/V delay, and rate/interval.

Prescription Use   X    
(Part 21 CFR 801 Subpart D)

AND/OR Over-The-Counter Use \_\_\_\_\_  
(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

---

Concurrence of CDRH, Office of Device Evaluation (ODE)



(Division Sign-Off)

Division of Cardiovascular Devices

510(k) Number   K083674