

K042636

DEC 14 2004

510(k) Summary

In accordance with the Food and Drug Administration Rule to implement provisions of the Safe Medical Devices Act of 1990 and in conformance with 21 CFR 807, this information serves as a Summary of Safety and Effectiveness for the use of the BioPlus Bone Void Filler.

Submitted By:	Berkeley Advanced Biomaterials Inc.
Date:	09-20-04
Contact Person:	François Génin, Ph.D. Phone: 510-883-0500; Fax: 510-883-0511
Proprietary Name:	BioPlus
Common Name:	Bone Void Filler
Classification Name and Reference:	Class II
Device Product Code and Panel Code:	Orthopedics/87/MQV

DEVICE INFORMATION

A. INTENDED USES/INDICATIONS

BioPlus is an osteoconductive bone substitute shaped as granules or blocks (cancellous, cortical or cortico-cancellous) that are intended to be used to fill voids and gaps that are not intrinsic to the stability of the bone structure. These gaps or voids may be located in the extremities, spine, pelvis, or cranium.

The granules or blocks may be pressed into the void or into the surgical site by hand. The BioPlus granules or blocks provide void filling material that acts as a temporary support medium. The granules or blocks are not intended to provide structural support during the healing process. The implant is radio-opaque. BioPlus is biocompatible and resorbs in the body as bone ingrowth occurs.

B. DEVICE DESCRIPTION

BioPlus is a sterile osteoconductive bone void filler. It consists of a formulation of calcium-based compounds. This synthetic bone graft comes in the shape of granules or blocks. BioPlus is supplied sterile for single patient use only. BioPlus is biocompatible and resorbs in the human body as bone ingrowth occurs when applied according to its indications-for-use. The implant is bioresorbable and radio-opaque.

C. SUBSTANTIAL EQUIVALENCE INFORMATION

BioPlus is substantially equivalent to legally marketed, predicate device Bi-Ostetic™ (K023703). The products have identical indications-for-use, identical or very similar composition, and equivalent contraindications. They also have similar warnings, precautions and potential adverse events. The safety and effectiveness of BioPlus are adequately supported by the substantial equivalence information, materials data, and test results provided in the full document submitted within the scope of this Premarket Notification.



Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

DEC 14 2004

François Génin, Ph.D.
Chief Executive Officer
Berkeley Advanced Biomaterials, Inc.
1933 Davis Street Suite 307
San Leandro, California 94577

Re: K042636
Trade Name: BioPlus
Regulation Number: 21 CFR 888.3045
Regulation Name: Resorbable calcium salt bone void filler
Regulatory Class: II
Product Code: MQV
Dated: November 19, 2004
Received: November 23, 2004

Dear Dr. Génin:

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 application (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.

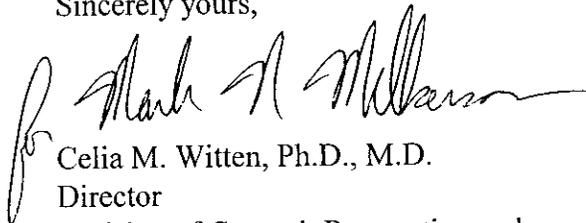
If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish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

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). 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) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>

Sincerely yours,

A handwritten signature in black ink, appearing to read "Celia M. Witten". The signature is written in a cursive style with a large initial "C" on the left.

Celia M. Witten, Ph.D., M.D.

Director

Division of General, Restorative and
Neurological Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K 042636

Device Name: **BioPlus**

Indications For Use:

BioPlus is an osteoconductive bone substitute shaped as granules or blocks (cancellous, cortical or cortico-cancellous) that are intended to be used to fill voids and gaps that are not intrinsic to the stability of the bone structure. These gaps or voids may be located in the extremities, spine, pelvis, or cranium.

The granules or blocks may be pressed into the void or into the surgical site by hand. The BioPlus granules or blocks provide void filling material that acts as a temporary support medium. The granules or blocks are not intended to provide structural support during the healing process. The implant is radio-opaque. BioPlus is biocompatible and resorbs in the body as bone ingrowth occurs.

Prescription Use
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use
(21 CFR 807 Subpart C)

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

Concurrence of CDRH, Office of Device Evaluation (ODE)

for Mark N. Millerson
(Division Sign-Off)
**Division of General, Restorative,
and Neurological Devices**

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