

AUG 14 2003

FRIADENT GmbH FRIALIT®-2 Dental Implant System  
Special Premarket 510(k) Notification

K031674

**SECTION 17: SUMMARY OF SAFETY AND EFFECTIVENESS**

This 510(k) summary of safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and CFR 807.92.

**17.1 SUBMITTER INFORMATION**

- a. Company Name: FRIADENT GmbH.
- b. Company Address: Steinzeugstrasse 50  
Mannheim D-68229  
Germany
- c. Company Phone: (011) 49 621 43 02 1121  
Company Facsimile: (011) 49 621 43 02 2121
- d. Contact Person: Heike Dietzler  
Regulatory Affairs Manager
- e. Date Summary Prepared: May 27, 2003

**17.2. DEVICE IDENTIFICATION**

- a. Trade/Proprietary Name: FRIALIT®-2 Dental Implant System
- b. Classification Name: Endosseous Dental Implants  
21 CFR 872.3640

**17.3 IDENTIFICATION OF PREDICATE DEVICES**

<u>Company</u>	<u>Device</u>	<u>510(k) No.</u>	<u>Date Cleared</u>
FRIADENT GmbH	FRIALIT®-2 Dental Implant System	K945847	03/15/1996
FRIADENT GmbH	FRIALIT®-2 Dental Implant System	K974358	10/02/1998
FRIADENT GmbH	FRIALIT®-2 Dental Implant System	K994376	03/24/2000

#### **17.4 DEVICE DESCRIPTION**

The FRIALIT®-2 Dental Implant System consists of subgingival threaded dental implants in 3.4 - 6.5mm diameters with 8 – 15mm lengths. The implants are coated with the FRIADENT Surface M2.1. The FRIALIT®-2 Dental Implant System is comprised of dental implants, surgical and laboratory instruments and prosthetic components. The system is designed for single stage procedures for single tooth replacement, fixation of bridges and complete dentures.

#### **17.5 SUBSTANTIAL EQUIVALENCE**

The FRIALIT®-2 dental implants with the FRIADENT Surface M2.1 are substantially equivalent to the current FRIALIT®-2 Dental Implant Systems in terms of design, materials, mechanical strength, prosthetic and laboratory options and intended use.

#### **17.6 INTENDED USE**

The FRIALIT®-2 Dental Implant System is indicated for use in single tooth restoration, edentulous spans restored with multiple single teeth, freestanding bridges and to retain overdentures. The implants can be used for immediate implant placement, delayed immediate implant placement or late implant placement.

#### **17.7 TECHNOLOGICAL CHARACTERISTICS**

The FRIALIT®-2 dental implant is available in 3.4, 3.8, 4.5, 5.5 and 6.5 mm screw-type implants with the FRIADENT Surface M2.1. The lengths of the implants range from 8 – 15mm. The FRIALIT®-2 dental implants are constructed of CP-2 titanium. A variety of prosthetic options are available for the FRIALIT®-2 system including, AuroBase, CeraBase, MP, PassivFit, EstheticBase, TempBase, Gold Copings, Telescopic, Ball and Socket Attachments, Bar/Clip, and Select Abutments.

The FRIALIT®-2 dental implants with the FRIADENT Surface M2.1 is equivalent to the current FRIALIT®-2 Dental Implant System in terms of design, materials, mechanical strength, prosthetic options, instructions for use and intended use. The only difference is the change in the surface morphology of the dental implant to the FRIADENT Surface M2.1.

#### **17.8 CLASS III CERTIFICATION AND SUMMARY**

This notification contains a Class III certification and summary of adverse safety and effectiveness information pursuant to 513(f) of the Federal Food, Drug, and Cosmetic Act.

#### **17.9 CONCLUSIONS**

This notification contains all information required by 21 CFR 807.87. A completed copy of the Premarket Notification 510(k) Reviewer's Checklist is provided in this submission. Performance evaluations of the FRIALIT®-2 dental implant system show that the device performs as intended. Comparison the FRIALIT®-2 dental implant system to the predicate devices show that the device is substantially equivalent. The complete surface characterization of the new FRIADENT Surface M2.1 has been detailed in Device Master File MAF-1235.



AUG 14 2003

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

FRIADENT GmbH  
C/O Carol Patterson  
Paterson Consulting Group Incorporated  
21911 Erie Lane  
Lake Forest, California 92630

Re: K031674  
Trade/Device Name: FRIALIT®-2 Dental Implant System  
Regulation Number: 872.3640  
Regulation Name: Endosseous Implant  
Regulatory Class: III  
Product Code: DZE  
Dated: August 7, 2003  
Received: August 11, 2003

Dear Mr. Patterson:

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.

Page 2 – Mr. Patterson

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 (301) 594-4613. 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,



Susan Runner, DDS, MA  
Interim Director  
Division of Anesthesiology, General Hospital,  
Infection Control and Dental Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

**INDICATION FOR USE**

510(k) Number:

K031674

Device Name:

FRIALIT®-2 Dental Implant System

Indications for Use:

The FRIALIT®-2 Dental Implant System is indicated for use in single tooth restoration, edentulous spans restored with multiple single teeth, freestanding bridges and to retain overdentures. The implants can be used for immediate implant placement, delayed immediate or late implant placement.

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(Division Sign-Off)

Division of Anesthesiology, General Hospital,  
Infection Control, Dental Devices

510(k) Number:

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

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use X

OR

Over-The-Counter Use \_\_\_\_\_

(Per 21 CFR 801.109)

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