



June 19, 2020

F&B Technology Co., Ltd.
% Yang Ho Dong
Manager
Onbix Corporation
#821 Samil Plaza, 14, Dogok-ro 1-gil, Gangnam-gu
Seoul 46977
REPUBLIC OF KOREA

Re: K190637
Trade/Device Name: Fit & Brilliant Dental Implant System
Regulation Number: 21 CFR 872.3640
Regulation Name: Endosseous Dental Implant
Regulatory Class: Class II
Product Code: DZE, NHA
Dated: June 8, 2020
Received: June 18, 2020

Dear Ho Dong Yang:

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. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm> identifies combination product submissions. 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. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

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 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) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see <https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance>) and CDRH Learn (<https://www.fda.gov/training-and-continuing-education/cdrh-learn>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice>) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

for Srinivas Nandkumar, Ph.D.
Director
DHT1B: Division of Dental Devices
OHT1: Office of Ophthalmic, Anesthesia,
Respiratory, ENT and Dental Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

K190637

Device Name

Fit & Brilliant Dental Implant System

Indications for Use (Describe)

The Fit & Brilliant Dental Implant System is indicated for use in partially or fully edentulous mandibles and maxillae, in support of single or multiple-unit restorations including; cemented retained, screw retained, or overdenture restorations, and terminal or intermediate abutment support for fixed bridgework. The Fit & Brilliant Dental Implant System is for single and two stage surgical procedures. It is intended for delayed loading.

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.

The burden time for this collection of information is estimated to average 79 hours per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, to:

Department of Health and Human Services
Food and Drug Administration
Office of Chief Information Officer
Paperwork Reduction Act (PRA) Staff
PRASStaff@fda.hhs.gov

"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."

510(k) SUMMARY
K190637

This 510(k) summary is being submitted in accordance with the requirements of 21 CFR §807.92.

Submitter Information: **F&B Technology Co., Ltd.**
17-230, #37, Kwaegam-ro, Sasang-ku, (Kwaebop, Ind. Supplies Market) Busan, Korea
Tel. +82-(0)51-319-3214, 1230, 1240

Contact Person: Ho Dong, Yang
Onbix Corporation
#821 Samil Plaza, 14 Dogokro 1-gil
Gangnam-gu, Seoul, Korea (06253)
Tel: *82-2-566-3360 / Fax: *82-2-6280-3360
Email: onbix@naver.com

Date Summary Prepared: June 19, 2020

Device Information:
Trade Name(s): **Fit & Brilliant Dental Implant System**
Classification Name: Endosseous Dental Implant
Panel: dental
Product Code & Regulation: DZE / NHA

Primary Predicate Device Information:
K132956 / U fit Dental Implant System

Device Description:
This medical product is for dental implant that is a surgical component that interfaces with the bone of the jaw to support a dental prosthesis such as a crown, bridge, denture. It is inserted in the jaw to support and maintain the prosthodontic restorative tooth or denture when the tooth is partially or totally lost. It is made of titanium material (ASTM F136 Ti 6Al-4V ELI) that is a widely used in the market. The surface of the produce is treated with powder for CaP, and it is designed to connect with the superstructure that abutment by internal fastening method. This is disposable product sterilized by gamma sterilization method and it prevents re-sterilization or reuse.

Indications for Use:
The Fit & Brilliant Dental Implant System is indicated for use in partially or fully edentulous mandibles and maxillae, in support of single or multiple-unit restorations including; cemented retained, screw retained, or overdenture restorations, and terminal or intermediate abutment support for fixed bridgework. The Fit & Brilliant Dental Implant System is for single and two stage surgical procedures. It is intended for delayed loading.

Comparison to Predicate Device(s):
This device is equivalent to the predicate devices in its intended use and technological characteristics, including:



- * indications for use
- * technological characteristics
- * performance properties

Summary of the technological characteristics compared to the predicate device
new device is substantially equivalent to the predicate device in its technological characteristics stated in below comparison table





Comparative table







1) Fixture



	Subject device	Predicate device
Device name	Fit & Brilliant Dental Implant System	U fit Dental Implant System
510(k) number	K190637	K132956
Manufacturer	F&B Technology Co., Ltd	T Strong, Inc.
Intended use	Identical to the predicate	The U fit Dental Implant System is indicated for use in partially or fully edentulous mandibles and maxillae, in support of single or multiple-unit restorations including; cemented retained, screw retained, or overdenture restorations, and terminal or intermediate abutment support for fixed bridgework. The Fit & Brilliant Dental Implant System is for single and two stage surgical procedures. It is intended for delayed loading.
The principle	Identical to the predicate	This medical product is a fixture for dental implant that is a surgical component that interfaces with the bone of the jaw to support a dental prosthesis such as a crown, bridge, denture. It is inserted in the jaw to support and maintain the prosthodontic restorative tooth or denture when the tooth is partially or totally lost. It is made of titanium material (ASTM F136 Ti 6Al-4V ELI) that is a widely used in the market. The surface of the produce is treated with powder for CaP series, and it is designed to connect with the superstructure that abutment by internal fastening method. This is disposable

		product sterilized by gamma sterilization method and it prevents re-sterilization or reuse.
Material	Ti-6Al-4V ELI ASTM F136	Ti-6Al-4V ELI ASTM F136
Design		
Fixture Type	Submerged Type	Submerged Type
Implant diameter	Φ3.9, Φ4.1, Φ4.4, Φ4.8, Φ5.3, Φ5.8, Φ6.3, Φ6.8 [mm]	Φ3.8, Φ3.9, Φ4.0, Φ4.1, Φ4.5, Φ5.0, Φ5.5, Φ6.0, Φ6.5, Φ7.0 [mm]
Implant length	7, 8.5, 10, 11.5, 13, 14.5 [mm]	7, 8.5, 10, 11.5, 13, 14.5 [mm]
Connection	2.5 Hex. Indentation and 11[°] Morse taper	2.5 Hex. Indentation and 11[°] Morse taper
Components	Various abutments and accessories	Various abutments and accessories
Surface treatment	RBM	RBM
Gamma sterilized	Yes	Yes
Product Code	DZE	DZE

2) Abutment		
	Subject device	Predicate device
Device name	Fit & Brilliant Dental Implant System	U fit Dental Implant System
510(k) number	NA	K132956
Manufacturer	F&B Technology Co., Ltd	T Strong, Inc.
Product description	Identical to the predicate	This abutment product is used to attach a crown, bridge, or removable

		denture to the dental implant fixture. It is made of titanium material (ASTM F136 Ti 6Al-4V ELI) that is a widely used in the market. It is designed to connect with the dental fixture by internal fastening method. This is a disposable product requires user sterilization with autoclave and it prevents re-sterilization or reuse.
Product Code	NHA	NHA
Cover Screw		
Design		
Intended use	To provide sealing effect for fixture	To provide sealing effect for fixture
Material	Ti-6Al-4V ELI ASTM F136	Ti-6Al-4V ELI Gr.23
Sterilization	Steam Sterilization by user	Steam Sterilization by user
Abutment Screw		
Design		
Intended use	To connect abutment to fixture	To connect abutment to fixture
Material	Ti-6Al-4V ELI ASTM F136	Ti-6Al-4V ELI ASTM F136
Sterilization	Steam Sterilization by user	Steam Sterilization by user
Healing Abutment		

Design		
Intended use	To help the soft tissue of gum naturally formed	To help the soft tissue of gum naturally formed
Material	Ti-6Al-4V ELI ASTM F136	Ti-6Al-4V ELI Gr.23
Sterilization	Steam Sterilization by user	Steam Sterilization by user
Solid Abutment		
Design		
Intended use	Cement retained restoration	Cement retained restoration
Material	Ti-6Al-4V ELI ASTM F136	Ti-6Al-4V ELI Gr.23
Sterilization	Steam Sterilization by user	Steam Sterilization by user
Transfer Abutment		
Design		
Intended use	Cement retained restoration	Cement retained restoration
Material	Ti-6Al-4V ELI ASTM F136	Ti-6Al-4V ELI Gr.23
Sterilization	Steam Sterilization by user	Steam Sterilization by user
Angled Abutment		

<p>Design</p>		
<p>Intended use</p>	<p>Cement retained restoration (15, 25[°])</p>	<p>Cement retained restoration (15, 25[°])</p>
<p>Material</p>	<p>Ti-6Al-4V ELI ASTM F136</p>	<p>Ti-6Al-4V ELI ASTM F136</p>
<p>Sterilization</p>	<p>Steam Sterilization by user</p>	<p>Steam Sterilization by user</p>

Non-Clinical Study performance

To demonstrate substantial equivalence, the following studies have been performed on the new device (K190637) in accordance with these standards:

- ISO 10993-5 cytotoxicity
- ISO 10993-10 skin irritation, sensitization
- ISO10993-10:skinirritation,sensitization
- USP 29 Biological tests <151> pyrogen test
- USP<85> BET endotoxin testing
- ISO 14801: dynamic fatigue testing
- ISO 11737-2: 2009, Sterilization of medical devices
- ISO 17665-1, ISO 17665-2, End-User Sterilization
- ASTM F88, ASTM F1140, ASTM F1929, ASTM F2096: accelerated aging
- Surface Assessment Evaluation

Conclusion

New device (K190637) has the same device characteristics as the predicate device, Based on the information provided in this summary we conclude that New device (K190637) is substantially equivalent to the predicate device K132956