

## 510(k) SUMMARY

The following 510(k) summary is being submitted as required by 21 CFR 807.92(a):

1. **Submitter:** L&K BIOMED Co., Ltd.  
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Geumcheon-gu, Seoul 153-803 Republic of Korea  
Phone.82-2-2624-1475  
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**Contact Person:** Hee Kyeong Joo  
E-mail.hkjoo83@gmail.com  
**Date prepared:** January 13, 2012

### 2. Device Identification

Proprietary Name	FOCUS Spinal System
Common Name	Pedicle Screw Spinal System
Product Code	MNI,MNH, NKB
Classification Name	Pedicle Screw Spinal System (888.3070)
Regulatory Class	Class III

### 3. Predicate or legally marketed devices which are substantially equivalent

- **L&K BIOMED:** VENUS BASIC Spinal Fixation System (K100706, K103085)  
FOCUS Spinal System (K112643)

### 4. Description of the Device

FOCUS Spinal System consists of cannulated polyscrews, straight rods, curved rods, crosslinks and set screw components that can be used via percutaneous surgical approach. The components are available in a variety of diameters and lengths in order to accommodate patient anatomy and are fabricated from titanium alloy (ASTM F136). The implants will be provided non-sterile.

## 5. Indications for Use

The FOCUS Spinal System is intended to provide immobilization and stabilization of spinal segments in skeletally mature patients as an adjunct to fusion in the treatment of acute and chronic instabilities or deformities of the thoracic, lumbar and sacral spine. And the FOCUS Spinal System can be used in an open approach and a percutaneous approach with MIS instrumentation.

The FOCUS Spinal System is intended for noncervical pedicle fixation for the following indications: degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies); spondylolisthesis; trauma (i.e., fracture or dislocation); spinal stenosis; curvatures (i.e., scoliosis, kyphosis, and for lordosis); tumor; pseudarthrosis; and failed previous fusion in skeletally mature patients.

When used in a percutaneous approach with MIS Instrumentation, the FOCUS Spinal System is intended for noncervical pedicle fixation for the following indications: degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies); spondylolisthesis; trauma (i.e., fracture or dislocation); spinal stenosis; curvatures (i.e., scoliosis, kyphosis, and for lordosis); tumor; pseudarthrosis; and failed previous fusion in skeletally mature patients.

## 6. Comparison of the technology characteristics of the device to predicate and legally marketed devices

There are no significant differences between the FOCUS Spinal System and other systems currently being marketed which would adversely affect the use of the product. It is substantially equivalent to these other devices in design, function and intended use.

## 7. Performance Data

Static compression bending, tension, torsion and dynamic compression bending were performed according to ASTM F1717 on a worst-case, screw construct. The mechanical test results demonstrated that the FOCUS Spinal System performs as well as the predicate device.

## 8. Conclusion

The FOCUS Spinal System is substantially equivalent to the devices referenced above and is therefore safe and effective for its intended use.



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

FEB 15 2012

L & K Biomed Co., Ltd.  
% Ms. Hee Kyeong Joo  
#1104, Ace High-end Tower 3 cha,  
371-50, Gasan-Dong, Geumcheon-gu,  
Seoul 153-803 Republic of Korea

Re: K120140  
Trade/Device Name: FOCUS Spinal System  
Regulation Number: 21 CFR 888.3070  
Regulation Name: Pedicle screw spinal system  
Regulatory Class: Class III  
Product Code: NKB, MNH, MNI  
Dated: January 17, 2012  
Received: January 18, 2012

Dear Ms. Joo:

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. 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); 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/ucm115809.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" (21 CFR 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,



for Mark N. Melkerson  
Director  
Division of Surgical, Orthopedic  
and Restorative Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

K120140

### Indications for Use

510(k) Number : K120140

Device Name : FOCUS Spinal System

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Prescription Use  (Part 21 CFR 801 Subpart D)

AND/OR

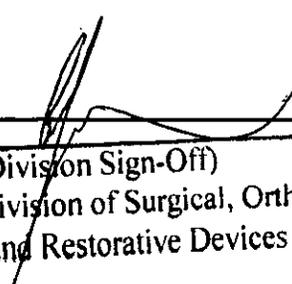
Over-The-Counter Use  (21 CFR 801 Subpart C)

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Concurrence of CDRH, Office of Device Evaluation (ODE)

Special 510(K)

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(Division Sign-Off)  
Division of Surgical, Orthopedic,  
and Restorative Devices

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