

**510(k) Summary**

In accordance with Title 21 of the Code of Federal Regulations, Part 807, and in particular 21 CFR §807.92, the following summary of information is provided:

**A. Submitted by:**

Jeremy Markovich  
 Senior Specialist, Regulatory Affairs  
 NuVasive, Incorporated  
 7475 Lusk Blvd.  
 San Diego, California 92121  
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Date Prepared: September 19, 2013

SEP 20 2013

**B. Device Name**

Trade or Proprietary Name:	<i>CoRoent Single Tab System</i>
Common or Usual Name:	Intervertebral Body Fusion Device
Classification Name:	Spinal Intervertebral Body Fixation orthosis

Device Class:	Class II
Classification:	21 CFR § 888.3080
Product Code:	OVD, MAX

**C. Predicate Devices**

The subject *CoRoent Single Tab System* is substantially equivalent to the following predicate devices: *NuVasive CoRoent System* (K071795), *NuVasive Sage Lateral Plate System* (K121815), and *Globus InterContinental Plate-Spacer* (K103382).

**D. Device Description**

The NuVasive CoRoent Single Tab System is manufactured from PEEK-Optima® LT-1 conforming to ASTM F2026, MP35N conforming to ASTM F562, and titanium alloy conforming to ASTM F136 and ISO 5832-3. The implants are available in a variety of different shapes and sizes to suit the individual pathology and anatomical conditions of the patient.

**E. Intended Use**

The NuVasive CoRoent Single Tab System is indicated for intervertebral body fusion of the spine in skeletally mature patients. The System is designed for use with autogenous bone graft to facilitate fusion.

The CoRoent Single-Tab System is intended for use at either one level or two contiguous levels in the lumbar spine, from L2 to L5, for the treatment of degenerative disc disease (DDD) with up to Grade I spondylolisthesis. DDD is defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies. The lumbar devices are to be used in patients who have had at least six months of non-operative treatment. The system is intended to be used with supplemental internal spinal fixation systems (e.g., pedicle or facet screws) that are cleared by the FDA for use in the lumbar spine in addition to the integrated screw.

**F. Technological Characteristics**

As was established in this submission, the subject *CoRoent Single Tab System* is substantially equivalent to other predicate devices cleared by the FDA for commercial distribution in the United States. The subject device was shown to be substantially equivalent and have the same technological characteristics to its predicate devices through comparison in areas including design, intended use, material composition, and function. This device does not contain software or electrical equipment.

**G. Performance Data**

Bench testing was performed to demonstrate that the subject *CoRoent Single Tab System* is substantially equivalent to other predicate devices. The following testing was performed:

- Static and dynamic axial compression and compression shear per ASTM F2077
- Wear debris testing per ASTM F2077, ASTM F1714 and ASTM F1877

The results demonstrate that the subject *CoRoent Single Tab System* presents no new worst-case for performance testing, and the subject device was therefore found to be substantially equivalent to the predicate. No animal or clinical studies were conducted.

**H. Conclusions**

Based on the indications for use, technological characteristics, and comparison to predicate devices, the subject *CoRoent Single Tab System* has been shown to be substantially equivalent to legally marketed predicate devices for its intended use.



Food and Drug Administration  
10903 New Hampshire Avenue  
Document Control Center - WC66-G609  
Silver Spring, MD 20993-0002

NuVasive, Incorporated  
Mr. Jeremy Markovich  
Senior Specialist Regulatory Affairs  
7475 Lusk Boulevard  
San Diego, California 92121

September 20, 2013

Re: K131723

Trade/Device Name: NuVasive<sup>®</sup> CoRent<sup>3d</sup> Single Tab System  
Regulation Number: 21 CFR 888.3080  
Regulation Name: Intervertebral body fusion device  
Regulatory Class: Class II  
Product Code: OVD, MAX  
Dated: June 21, 2013  
Received: June 24, 2013

Dear Mr. Markovich:

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

Page 2 – Mr. Jeremy Markovich

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 contact 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>. 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 CDRIH'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,

**Mark N. Melkerson -S**

Mark Melkerson  
Director  
Division of Orthopedic Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

### Indications for Use

510(k) Number (if known): K131723

Device Name: NuVasive® CoRoent® Single Tab System

#### Indications For Use:

The NuVasive CoRoent Single Tab System is indicated for intervertebral body fusion of the spine in skeletally mature patients. The System is designed for use with autogenous bone graft to facilitate fusion.

The CoRoent Single Tab System is intended for use at either one level or two contiguous levels in the lumbar spine, from L2 to L5, for the treatment of degenerative disc disease (DDD) with up to Grade I spondylolisthesis. DDD is defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies. The devices are to be used in patients who have had at least six months of non-operative treatment. The system is intended to be used with supplemental internal spinal fixation systems (e.g., pedicle or facet screws) that are cleared by the FDA for use in the lumbar spine in addition to the integrated screw.

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)

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Concurrence of CDRH, Office of Device Evaluation (ODE)

Anton E. Dmitriev, PhD  
Division of Orthopedic Devices