



Food and Drug Administration
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January 6, 2017

Integra LifeSciences Corporation
Gabriella Green
Regulatory Affairs Specialist
311 Enterprise Dr.
Plainsboro, NJ 08536

Re: K163457

Trade/Device Name: NeuraGen® 3D Nerve Guide Matrix
Regulation Number: 21 CFR 882.5275
Regulation Name: Nerve Cuff
Regulatory Class: Class II
Product Code: JXI
Dated: December 8, 2016
Received: December 9, 2016

Dear Ms. Green:

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 contact the Division of Industry and Consumer Education 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 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 Industry and Consumer Education 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,

Michael J. Hoffmann -S

for Carlos L. Peña, PhD, MS
Director
Division of Neurological
and Physical Medicine Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

K163457

Device Name

NeuraGen® 3D Nerve Guide Matrix

Indications for Use (Describe)

The NeuraGen® 3D Nerve Guide Matrix is indicated for the repair of peripheral nerve discontinuities where gap closure can be achieved by flexion of the extremity.

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.

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2. 510(k) SUMMARY

NeuraGen® 3D Nerve Guide Matrix

Submitter's name and address:

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Telephone: 609-275-0500
Cell: 609-275-5363

Contact person and telephone number:

Gabriella Green
Regulatory Affairs Associate

Date the Summary was prepared: December 8, 2016

Name of the device:

Trade name: NeuraGen® 3D Nerve Guide Matrix
Common Name: Nerve Guide Matrix
Classification Name: 21 CFR 882.5275: Nerve Cuff, Class II
Product Code: JXI

Substantial Equivalence:

NeuraGen® 3D Nerve Guide Matrix is substantially equivalent in function and intended use to the predicate device detailed in [Table 2-1](#).

Table 2-1: Substantial Equivalent

510(k) Number	Product Code	Trade Name	Manufacturer
K130557	JXI	NeuraGen® 3D Nerve Guide	Integra LifeSciences Corporation

Device Description:

NeuraGen® 3D Nerve Guide Matrix is a resorbable implant for the repair of peripheral nerve discontinuities. NeuraGen® 3D Nerve Guide Matrix provides a protective environment for peripheral nerve repair after injury, and is designed to isolate and protect the nerve and to create a conduit for axonal growth across a nerve gap. NeuraGen® 3D is composed of bovine Type I collagen conduit and a porous inner matrix comprised of collagen and glycosaminoglycan (chondroitin-6-sulfate). When hydrated, NeuraGen® 3D Nerve Guide Matrix is an easy to handle, soft, pliable, non-friable, collagen conduit containing a porous three-dimensional matrix.

NeuraGen® 3D Nerve Guide Matrix is supplied sterile, non-pyrogenic, for single use in a variety of sizes.

Indication for Use:

The NeuraGen® 3D Nerve Guide Matrix is indicated for the repair of peripheral nerve discontinuities where gap closure can be achieved by flexion of the extremity.

Summary of Technological Characteristics:

NeuraGen® 3D Nerve Guide Matrix has the same design, material, and chemical composition, as the predicate device (K130557). The manufacturing and processing are exactly the same.

Testing and Test Results:

A viral inactivation study was conducted to demonstrate that NeuraGen® 3D Nerve Guide Matrix demonstrates conformance to *ISO 22442-3 Medical devices utilizing animal tissues and their derivatives -- Part 3: Validation of the elimination and/or inactivation of viruses and transmissible spongiform encephalopathy (TSE) agents*, FDA Recognition Number 15-47, through the combined enzymatic treatment and alkali treatment processes. These processes were performed in a validated scaled down process that is representative of all Integra LifeSciences Corporation's collagen products. The viral inactivation study resulted in a six log reduction of the viral titers. The results of the testing did not raise any new issues of safety or effectiveness compared to NeuraGen® 3D Nerve Guide Matrix.

Conclusion:

The NeuraGen® 3D Nerve Guide Matrix is substantially equivalent to the current marketed device, NeuraGen® 3D Nerve Guide Matrix. There have been no modifications to the design or manufacturing of the NeuraGen® 3D Nerve Guide Matrix that resulted in this filing. The results of the viral inactivation study do not change the intended use or fundamental scientific technology of the device, and do not raise any new issues of safety or effectiveness.