

January 26, 2022

Biosense Webster, Inc. Michelle Wheeler Senior Regulatory Affairs Specialist 31 Technology Drive Suite 200 Irvine, California 92618

Re: K211219

Trade/Device Name: LASSOSTARTM NAV Circular Mapping Catheter

Regulation Number: 21 CFR 870.1220

Regulation Name: Electrode Recording Catheter Or Electrode Recording Probe

Regulatory Class: Class II Product Code: DRF

Dated: April 22, 2021 Received: April 23, 2021

Dear Michelle Wheeler:

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 <u>Federal Register</u>.

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-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/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,

Aneesh Deoras
Assistant Director
Division of Cardiac Electrophysiology,
Diagnostics and Monitoring Devices
Office of Cardiovascular Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

510(k) Number (if known)

Form Approved: OMB No. 0910-0120

Expiration Date: 06/30/2023 See PRA Statement below.

2211219
evice Name ASSOSTAR™ NAV Circular Mapping Catheter
Indications for Use (Describe) The LASSOSTAR TM NAV Circular Mapping Catheter is indicated for multiple electrode electrophysiology recording and timulation of the atrial region of the heart. The catheter can be used with a compatible CARTO TM 3 System to provide ocation information and to create three-dimensional electroanatomic maps. (The catheter is not compatible with CARTO TM 3 Systems prior to Version 7.)
ype 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)

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

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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

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Department of Health and Human Services Food and Drug Administration Office of Chief Information Officer Paperwork Reduction Act (PRA) Staff PRAStaff@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

This 510(k) Summary is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92

Date Summary Prepared September 22, 2021

Applicant Biosense Webster, Inc.

31 Technology Drive Suite 200

Irvine, CA 92618

Establishment Registration Number: 9044811

Official Correspondent Michelle Wheeler

Senior Regulatory Affairs Specialist

Telephone: (949) 923-4793

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Trade Name LASSOSTAR™ NAV Circular Mapping Catheter

Common Name Electrophysiology Catheter

Classification Name Catheter, Electrode Recording, Or Probe, Electrode

Recording

Device Classification Class II, 21 CFR 870.1220

Product Code: DRF

Device Configuration D-1404-01-S, D-1404-02-S, D-1404-03-S

Predicate device LassoStarTM (K193632)

Substantially Equivalent

The Biosense Webster Inc. LASSOSTARTM NAV Circular Mapping Catheter is substantially equivalent to the Biosense Webster Inc. LassoStarTM Non Nav Circular Mapping Catheter [510(k) K193632 cleared June 30, 2020].

Description of the Device Subject to Premarket Notification

The Biosense Webster LASSOSTARTM NAV Circular Mapping Catheter is a 3.5 Fr, multielectrode electrophysiological circular mapping catheter designed to provide location information and to create three-dimensional electroanatomic maps of the heart. On its distal tip, the catheter has a loop with platinum electrodes that can be used for recording and stimulation. The tip has an embedded sensor that allows the catheter to provide location information and create threedimensional electroanatomic maps when used with a compatible Biosense Webster Inc. CARTOTM 3 System. The catheter is available in three loop diameters: 15 mm, 20 mm and 25 mm to allow for use in pulmonary veins of differing size. The catheter can be visualized using



conventional systems (such as fluoroscopy or ultrasound imaging), or with a compatible CARTOTM 3 System via interface cables with the appropriate connectors. The LASSOSTARTM NAV Circular Mapping catheter has three product configurations (D-1404-01-S, D-1404-02-S, D-1404-03-S).

Indications for Use

The LASSOSTARTM NAV Circular Mapping Catheter is indicated for multiple electrode electrophysiology recording and stimulation of the atrial region of the heart. The catheter can be used with a compatible CARTOTM 3 System to provide location information and to create three-dimensional electroanatomic maps. (The catheter is not compatible with CARTOTM 3 Systems prior to Version 7.)

Technological Characteristics

The LASSOSTARTM NAV Circular Mapping Catheter uses similar technology and method of operation as the predicate device. The subject device includes the same number of electrodes, loop diameters, distal end shape and spine cover material as the predicate. The main differences of the subject device are the usable length, CartoTM compatibility, french size, shaft material and navigation sensor feature. **Table 2-1** provides a summary comparison of the Technological features of the subject and predicate device.

 Table 2-1: Characteristic Comparison

Subject Area	Subject Device	Predicate Device
Due do et Ce de	(LASSOSTAR NAV)	(LASSOSTAR Non Nav, K193632)
Product Code Indications for Use	The LASSOSTAR TM NAV Circular Mapping Catheter is indicated for multiple electrode electrophysiology recording and stimulation of the atrial region of the heart. The catheter can be used with a compatible CARTO TM 3 System to provide location information and to create three-dimensional electroanatomic maps. (The catheter is not compatible with CARTO TM 3 Systems prior to Version 7.)	The LassoStar TM Circular Mapping Catheter is indicated for multiple electrode electrophysiological recording and stimulation of the atrial region of the heart. The catheter is designed to obtain electrograms in the atrial region of the heart.
Outer Diameter	3.5 French	3 French
Usable catheter Length	179 cm <u>+</u> 1.0cm	193 cm <u>+</u> 3.0cm
Number of Electrodes	10	10
Distal End Shape	Circular loop	Circular loop
Loop Diameter	3 sizes: 15mm, 20mm, 25mm	3 sizes: 15mm, 20mm, 25mm
Spine Cover Material	Pellethane	Pellethane
Shaft Material	Stainless Steel with Polyimide jacket	Stainless Steel



Method of Tip	No deflection	No deflection
Deflection		
CARTO	Carto 3, Version 7 and higher	Carto 3 visualization following
compatibility		mapping with navigational catheter
Navigation Sensor	Yes	No

Performance Data

The LASSOSTARTM NAV circular catheter underwent bench and animal testing using similar pre-determined acceptance criteria as the predicate device. Testing was completed to support the subject modifications. The GLP animal study evaluated various sizes of deflectable sheaths and a catheter with a guide wire lumen to determine mapping capabilities of the subject device. The decreased outer diameter and change in shaft material were analyzed using functional and biocompatibility testing. The results of the testing demonstrate the device in scope of this premarket notification meet the product requirements with appropriate test criteria and standards. The following tests were performed in support of the substantial equivalence determination:

- Visual Inspections
- Electrical
- EEPROM Burn Checks
- Buckle Force
- Insertion
- Torque
- Tensile Strength
- Impedance and resistance
- Visualization
- Packaging Sterile Barrier Gross Leak
- Transportation
- Sterilization
- Simulated Use
- Electrical Compatibility

Conclusion

The LASSOSTARTM NAV Circular Mapping Catheter is substantially equivalent to the currently cleared predicate device and is considered as safe and as effective as the predicate device.