

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

July 8, 2016

Stryker Corporation Ms. Meriam Gabera Senior Regulatory Affairs Specialist 2 Pearl Court Allendale, New Jersey 07401

Re: K160978

Trade/Device Name: Lite Bio Delivery System

Regulation Number: 21 CFR 880.5860 Regulation Name: Piston Syringe

Regulatory Class: Class II

Product Code: FMF Dated: April 6, 2016 Received: April 7, 2016

Dear Ms. Gabera:

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 <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); 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

 $\underline{http://www.fda.gov/MedicalDevices/Resources for You/Industry/default.htm}.$

Sincerely yours,

Jennifer R. Stevenson -A

For Binita S. Ashar, M.D., M.B.A., F.A.C.S.
Director
Division of Surgical Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement below.

FOR FDA U Concurrence of Center for Devices and Radiological Health (CDRH) (
PLEASE DO NOT WRITE BELOW THIS LINE - C	ONTINUE ON A SEPARATE PAGE IF NEEDED.
Prescription Use (Part 21 CFR 801 Subpart D)	Over-The-Counter Use (21 CFR 801 Subpart C)
Type of Use (Select one or both, as applicable)	
steriopedie surgicul sites.	
Indications for Use (Describe) The LITe® BIO Delivery System is intended to deliver autogra orthopedic surgical sites.	aft, allograft, or synthetic bone grafting materials to all
Device Name LITe® BIO Delivery System	
K160978	

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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 as required by 21CFR§807.92(c): LITe® BIO Delivery System	
Submitter	Stryker Spine
	2 Pearl Court
	Allendale, NJ 07401
Contact Person	Meriam Gabera, MS
	Senior Regulatory Affairs Specialist
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Date Prepared	July 1, 2016
Trade Name	LITe® BIO Delivery System
Common Name	Syringe, piston
Proposed Class	Class II
Classification Name,	Piston syringe, 21 CFR § 880.5860
Codification	
Product Codes	FMF
Predicate Devices	Primary Predicate:
	 Arthrex Mixing and Delivery System - K121124
	Additional Predicates:
	 Biomet Graft Delivery Syringes - K140710
	 NovaBone MIS Cartridge Delivery System - K112773
	Reference Devices:
	 Imbibe Bone Marrow Aspiration Syringe – K023074
	 Aero-AL Lumbar Cage System – K133328
	 Aero-C Cervical Cage System – K152532
Device Description	The LITe® BIO Delivery System is a manually operated hand-held device used to facilitate delivery of bone graft material to all orthopedic
	surgical sites. The LITe® BIO Delivery System consists of a delivery
	cannula, a delivery plunger, a delivery plunger tip, a loading syringe, and
	a delivery handle. The cannula is filled with the physician's choice of
	bone graft material and is then delivered to the intended surgical site.
Indications for Use	The LITe® BIO Delivery System is intended to deliver autograft, allograft,
	or synthetic bone graft materials to all orthopaedic surgical sites.
Summary of	The LITe® BIO Delivery System shares similar materials, design, and
Technological	fundamental scientific technologies as the predicate devices. An
Characteristics	assessment of the technological differences was completed and the
	following differences were identified:
	 The design of the primary predicate system allows for
	mixing/preparing the bone graft mixture within the device as
	opposed to using an external surgical dish for preparing the
	bone graft material.
	 The primary predicate is supplied as a sterile, single use device

	while the subject device is supplied with both sterile, single use
	devices and non-sterile, reusable instruments.
	The comparison of the LITe® BIO Delivery System against the primary
	predicate system demonstrated that the identified design differences do
	not impact the functionality or performance of the subject system,
	supporting the claim of substantial equivalence.
Summary of	Testing was conducted to demonstrate performance as intended and
Performance Data	included the following bench testing:
	•Functional testing (delivery of graft material through cannula)
	•Life cycle testing
	Cantilever bending of cannula
	•Radial compression of cannula
	•Retention strength test of cannula
	Connection strength test of cannula to loading funnel
	The testing verifies that the subject device is substantially equivalent to
	other currently marketed bone graft delivery systems and any
	technological differences do not raise any new issues regarding safety
	and effectiveness.
Conclusion	Based upon a comparison of intended use, technological characteristics,
	and device performance in the non-clinical testing listed above, the
	LITe® BIO Delivery System has demonstrated substantial equivalence to
	the identified predicate device systems.