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510(k) Summary 807.92(c)

Genadyne Biotechnologies, Inc.

JUN 2 9 2010

SPONSOR

807.92(a)(1)

Company Name:

Company Address

65 Watermill Lane Great Neck, NY 11021

Telephone: Fax: 800.208.2025 516.487.7878

Contact Person:

Chien-Ming Goh

Summary Preparation Date: June 17, 2010

DEVICE NAME

807.92(a)(2)

Trade Name:	A4-XLR8 Foam Dressing
Common/Usual Name:	Foam Dressing
Classification Name:	Negative Pressure Wound Therapy Powered
	Suction Pump and Accessories
Regulation Number:	21 CFR 878.4780
Product Code:	OMP
Device Class:	Class II
Panel:	General & Plastic Surgery

PREDICATE DEVICE

807.92(a)(3)

Legally Marketed Equivalen	t Device	
Company	Product	510(k) #
Smith & Nephew, Inc.	Renasys [™] -F NPWT Foam Dressing	K082211

DEVICE DESCRIPTION

807.92(a)(4)

Genadyne A4-XLR8 Foam Dressing is manufactured using a reticulated flexible polyether and polyurethane hydrophobic foam material. The single-use dressing is housed in a Tyvek/Mylar Peel Pouch which is sterilized using EtO.

Genadyne A4-XLR8 Foam Dressing is available in three sizes; 1) small, 2) medium and 3) large.

DEVICE INTENDED USE

807.92(a)(5)

Genadyne A4-XLR8 Foam Dressing is intended to be used in conjunction with the Genadyne A4 Wound Vacuum System (K082676) to deliver negative pressure wound therapy to the wound. Genadyne A4 Wound Vacuum System is indicated for patients who would benefit from a suction device, particularly as the device may promote wound healing by the removal of excess exudates, infectious material and tissue debris.

A4-XLR8 Foam Dressing is appropriate for use on the following wounds:

- Pressure ulcers
- Diabetic/Neuropathic Ulcers
- Venous insufficiency ulcers
- Traumatic wounds
- Post-operative and dehisced surgical wounds
- Comparative Bench

Caution: Federal law restricts this device to sale by or on the order of a physician.

NONCLINICAL AND CLINICAL TEST

807.92(b)

Test	Standard	Results
L929 MEM Elution Test	ISO 10993-5	Reticulated PE/PU, is
- ISO		considered non-cytotoxic
		and meets the requirements
		of the Elution Test defined
		in ISO 10993-5 guidelines.
L929 MEM Elution Test	ISO 10993-5	Reticulated PE/PU, is
- ISO		considered non-cytotoxic
		and meets the requirements
		of the Elution Test defined
		in ISO 10993-5 guidelines.
L929 MEM Elution Test	ISO 10993-10	Reticulated PE/PU, is
- ISO		considered non-cytotoxic
		and meets the requirements
		of the Elution Test defined
		in ISO 10993-5 guidelines.
Kligman Maximization	ISO 10993-10	Based on the criteria of the
Test - ISO		protocol, a Grade I
		sensitization rate is not
		considered significant and
		the test article meets the
		requirements of the ISO
		10993-10 guidelines.
Intracutaneous Injection	ISO 10993-10	Based on the criteria of the
Test - ISO		protocol, the test article is
		considered a negligible
		irritant and meets the

.

		requirements of the ISO
Vinctic Limulus	USD 22 NE 27:2000	The test article contains
Amelic Limulus	USF 52, NF 27.2009	0.00680 EU/mJ The
(LAI)		0.00089 EO/IIIL. The
(LAL)		the linear regression was
		the linear regression was
		calculated to be -0.999.
Inhibition and	USP 32, NF 27:2009	The correlation coefficient
LAL Kinetia Mathed		for the linear regression
LAL Killene Method		was calculated to be -0.999
		for standard curve, -0.996
		for sample 1 and -0.997 for
		sample 2 and -0.998 for
		sample 3. There was no
		inhibition or enhancement
		present in the test article.
Bacteriostasis &	USP 32, NF 27:2009	The test article is
Fungistasis / Direct		considered non-
Transfer		bacteriostatic and non-
		fungistatic, according to
		the USP guidelines.
Bioburden Validation –	ANSI/AAMI/ISO 11737-1:	The percent recovery was
Exhaustive Recovery	2006	100% and the recovery
	•	factor was 1 using the
		exhaustive recovery
		method.
Accelerated Aging	ASTM F1980-07	At the time of this filing 4-
		months of real-time testing
		has been completed
Residual EtO, ECh, and	ISO 10993-10	 Ethylene Oxide –
EG		Not Detected
		• Ethylene
		Chlorohydrin – Not
		Detected
		• Ethylene Glycol -
		1.18 mg, 1.71 mg,
		1.43 mg, 1.65 mg,
		1.34 mg. 1.31 mg
Comparative Bench	In-house	Based on the comparative
Testing of Subject Device		bench test it was
Vs Predicate Device		established that the A4-
		XLR8 Foam Dressing Kit
		is substantially equivalent
		to the Repays F NPWT
		Dressing Kit *
		Diessing Kit.

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***OVERVIEW OF COMPARATIVE BENCH TEST**

To ensure that the Genadyne A4-XLR8 Foam Dressing Kit is substantially equivalent to the Smith and Nephew Renasys F NPWT Foam Dressing Kit, Genadyne collected data on 3 different conditions during the bench test to demonstrate that under a vacuum environment and at different set levels of vacuum pressure, the foam performed exactly as expected and there were no unexpected outcomes during the tests.

The following tests were conducted:

- 1. Dimensions were recorded before and after the 72 hours bench test. The results demonstrated after undergoing long periods of suction pressures both dressings appeared unchanged.
- Suction pressures were recorded to determine the variation in suction pressures between the Genadyne A4Foam Dressing and the Smith & Nephew Foam. It was determined that the difference in suction pressures between the two dressings is ± 5mmHg. It was also noted that pressure distribution appeared to be uniform across both dressings.
- 3. Fluid removal rates were recorded to determine the wound exudate removal rate between the Genadyne A4 Foam Dressing and the Smith & Nephew Foam Dressing using plasma to simulate wound exudate. Suction was continuous for the entire 72 hour study. Fluid removal rate was found to be substantially equivalent.

SUBSTANTIAL EQUIVALENCE

807.92(b)(3)

In establishing substantial equivalence to the predicate device, Genadyne Biotechnologies evaluated the indications for use, material, technology, and product specifications of the product. Performance testing has been completed to demonstrate the substantial equivalence of the Genadyne A4-XLR8 Foam Dressing for its indications for use.



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

Genadyne Biotechnologies, Inc. % Smith Associates E.J. Smith 1468 Harwell Avenue Crofton, Maryland 21114

JUN 2 9 2010

Re: K092992

Trade/Device Name: A4-XLR8 Foam Dressing Regulation Number: 21 CFR 878.4780 Regulation Name: A4-XLR8 Foam Dressing Regulatory Class: II Product Code: OMP Dated: June 1, 2010 Received: June 1, 2010

Dear E.J. Smith:

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 Page 2 - E.J. Smith

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 <u>http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm</u> 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" (21CFR 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,

Mark N. Melkerson Director Division of Surgical O

Division of Surgical, Orthopedic and Restorative Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known):

Device Name: A4-XLR8 Foam Dressing

Indications for Use:

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- Pressure ulcers
- Diabetic/Neuropathic Ulcers
- Venous insufficiency ulcers
- Traumatic wounds
- Post-operative and dehisced surgical wounds
- Skin flap and grafts

Caution: Federal law restricts this device to sale by or on the order of a physician.

(Check appropriate designation below)

Prescription Use X (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 OF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

2 Mxa (Division Sign-Off)

Division of Surgical, Orthopedic, and Restorative Devices

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510(k) Number.