K062024

JUL 2 8 2006

510(k) Summary of Safety and Effectiveness Information

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92.

Submitter's Name:

Lorraine H Piestrak

Dade Behring Inc.

P.O. Box 6101

Newark, DE 19714-6101

Date of Preparation:

July 17, 2006

Name of Products:

Dimension Vista™ Digitoxin (DGTX) Flex® reagent cartridge

Dimension Vista™ Digoxin (DIG) Flex® reagent cartridge

Dimension Vista™ Gentamicin (GENT) Flex® reagent cartridge

Dimension Vista™ N-acetylprocainamide (NAPA) Flex® reagent cartridge

Dimension Vista™ Phenytoin (PTN) Flex® reagent cartridge

Dimension Vista™ Theophylline (THEO) Flex® reagent cartridge

FDA Classification Name:

Classification Name: Common/Usual Name:

m
est system

Predicate Device:

The following table describes the predicate devices, device classification, regulation and product code associated with this pre-market notification:

New Product	Predicate	Predicate 510(k) #	Device class	Regulation	Product Code
Dimension Vista TM DGTX Flex® reagent cartridge	Dimension® DGTX Flex® reagent cartridge	K990251	11	862.3300	LFM
Dimension Vista™ DIG Flex® reagent cartridge	Dimension® DGNA Flex® reagent cartridge	K946153	11	862.3320	KXT
Dimension Vista TM GENT Flex® reagent cartridge	Dimension® GENT Flex® reagent cartridge	K962819	II	862.3450	LCD
Dimension Vista™ NAPA Flex® reagent cartridge	Dimension® NAPA Flex® reagent cartridge	K032564	II	862.3320	LAN

New Product	Predicate	Predicate 510(k) #	Device class	Regulation	Product Code
Dimension Vista™ PTN Flex® reagent cartridge	Dimension® PTN Flex® reagent cartridge	K 911056	П	862.3350	DIP
Dimension Vista™ THEO Flex® reagent cartridge	Dimension® THEO Flex® reagent cartridge	K862955	II	862.3880	KLS

Device Description:

Dade Behring Dimension VistaTM Flex® reagent cartridges are prepackaged in-vitro diagnostic test methods (assays) that are specifically designed to be used on the Dade Behring Dimension VistaTM Integrated system, a floor model, fully automated, microprocessor-controlled, integrated instrument system. The Dimension VistaTM system was previously cleared with seven associated test methods (K 051087). This Special 510(k) is submitted for a packaging modification to *in-vitro* diagnostic devices that have been cleared under the 510(k) process for use on Dimension® clinical chemistry systems. The packaging change is to allow use on the Dimension VistaTM system.

The reagents contained in the Dimension VistaTM Flex® reagent cartridges are the same as those contained in the Flex® reagent cartridges manufactured for the Dimension® clinical chemistry systems, another family of Dade Behring analyzers. The packaging modification, does not affect the intended use of the devices, nor does it alter the fundamental scientific technology of the devices.

Intended Use:

Digitoxin

The DGTX method is an *in vitro* diagnostic test for the quantitative measurement of digitoxin in serum and plasma on the Dimension VistaTM System. Measurements of digitoxin are used in the diagnosis and treatment of digitoxin overdose and in monitoring levels of digitoxin to ensure appropriate therapy.

Digoxin

The DIG method is an *in vitro* diagnostic test for the quantitative measurement of digoxin in serum and plasma on the Dimension VistaTM System. Measurements of digoxin are used in the diagnosis and treatment of digoxin overdose and in monitoring levels of digoxin to ensure appropriate therapy.

Gentamicin

The GENT method is an *in vitro* diagnostic test for the quantitative measurement of gentamicin, an aminoglycoside antibiotic, in human serum and plasma on the Dimension VistaTM System. Gentamicin measurements may be used in the diagnosis and treatment of gentamicin overdose and in monitoring levels of gentamicin to ensure appropriate therapy.

N-acetylprocainamide

The NAPA method is an *in vitro* diagnostic test for the quantitative measurement of N-acetylprocainamide in serum and plasma on the Dimension VistaTM System. N-acetylprocainamide measurements may be used in therapeutic drug monitoring to maintain adequate procainamide therapy.

Phenytoin

The PTN method is an *in vitro* diagnostic test for the quantitative measurement of phenytoin, (dilantin, diphenylhydantoin), an anti-epileptic drug, in human serum and plasma on the Dimension VistaTM System. Phenytoin measurements may be used in the diagnosis and treatment of phenytoin overdose and in monitoring levels of phenytoin to ensure appropriate therapy.

Theophylline

The THEO method is an *in vitro* diagnostic test for the quantitative measurement of theophylline in human serum and plasma on the Dimension VistaTM System.

Comparison to Predicate Device:

Both the Dimension VistaTM Flex® reagent cartridges and the predicate Dimension® Flex® reagent cartridges contain prepackaged reagents in flexible plastic cartridges. A comparison of the important similarities and differences between the two Flex® cartridges is provided in the following table:

Feature	Dimension Vista™ Flex® reagent cartridge	Dimension® Analyzer Flex® reagent cartridge
Reagents	Prepackaged, 12-well plastic, Dade Behring Flex® reagent cartridges	Prepackaged, 6 & 8 well plastic, Dade Behring Flex® reagent cartridges
Intended Use	in vitro diagnostic use	in vitro diagnostic use
Indications for Use	Same as Dimension® analyzer	As described in 510(k)s for each previously cleared method.
Final concentration of sample/reagent ratio in test milieu	Same as Dimension® analyzer	As described in 510(k)s for each previously cleared method
Tablet Sizes	7/32"	7/32" & 9/32"
Total tests contained in each Flex® cartridge	Approximately three times more than contained in Dimension® Flex® reagent cartridges	As described in 510(k)s for each previously cleared method.
Calibration	30 to 90 days (determined for each method)	30 to 90 days As described in 510(k)s for each previously cleared method.

Comments on Substantial Equivalence:

The Dade Behring Dimension Vista™ Flex® reagent cartridges and the Dimension® Flex® reagent cartridges are designed similarly for the same purpose. Both contain prepackaged reagents for *in-vitro* diagnostic tests that are processed on microprocessor-controlled, integrated instrument systems to analyze a variety of analytes in human specimens.

The reagents contained in the Dimension Vista™ Flex® reagent cartridges are the same as those contained in the Flex® reagent cartridges manufactured for the Dimension® clinical chemistry systems, another family of Dade Behring analyzers. The packaging modifications do not affect the intended use of the devices, nor do they alter the fundamental scientific technology of the devices.

Comparative testing described in the protocol included in this submission demonstrates substantially equivalent performance.

Conclusion:

The Flex® reagent cartridges, containing reagents for testing DGTX, DIG, GENT, NAPA, PTN, and THEO on the Dimension® Vista™ Integrated system are substantially equivalent in design, principle, and performance to the Dimension® system Flex® reagent cartridges. They have the same intended use and indications for use. Comparative testing also demonstrates substantially equivalent performance.

L'orraine H Piestrak

Regulatory Affairs & Compliance Manager

Grani A Restrok

July 17, 2006



Friod and Drug Administration 2098 Gaither Road Bockville MD 20850

JUL 2 8 2006

Ms. Lorraine H. Piestrak Regulatory Affairs & Compliance Manager Dade Behring, Inc. PO Box 6101, M/S 514 Newark, DE 19714-6101

Re: k062024

Trade/Device Name: Dimension Vista™ Digitoxin (DGTX) Flex® reagent cartridge

Dimension Vista[™] Digoxin (DIG) Flex® reagent cartridge Dimension Vista[™] Gentamicin (GENT) Flex® reagent cartridge

Dimension VistaTM N-acetylprocainamide (NAPA)

Flex® reagent cartridge

Dimension VistaTM Phenytoin (PTN) Flex® reagent cartridge Dimension VistaTM Theophylline (THEO) Flex® reagent cartridge

Regulation Number: 21 CFR§862.3300 Regulation Name: Digitoxin test system

Regulatory Class: Class II

Product Code: LFM, KXT, LCD, LAN, DIP, KLS

Dated: July 17, 2006 Received: July 18, 2006

Dear Ms. Piestrak:

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.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. 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 Parts 801 and 809); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820).

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This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific information about the application of labeling requirements to your device, or questions on the promotion and advertising of your device, please contact the Office of In Vitro Diagnostic Device Evaluation and Safety at (240) 276-0484. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). 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) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Alberto Gutierrez, Ph.D.

Director

Division of Chemistry and Toxicology

Office of In Vitro Diagnostic Device

Evaluation and Safety

Center for Devices and Radiological Health

Enclosure

510(k) Number ((if known):				
Device Name:	e: Dimension Vista™ Digitoxin (DGTX) Flex® reagent cartridge				
Indications For U	Jse:				
The Dimension Vista TM Digitoxin (DGTX) Flex® reagent cartridge is a device intended to measure digitoxin, a cardiovascular drug, in serum and plasma. Measurements obtained by this device are used in the diagnosis and treatment of digitoxin overdose and in monitoring levels of digitoxin to ensure appropriate therapy.					
·					
Prescription Use _ (Part 21 CFR 801		AND/OR	Over-The-Counter Use		
(PLEASE DO	NOT WRITE BELOW	THIS LINE-CONT NEEDED)	INUE ON ANOTHER PA	GE IF	
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	X0620:	24			

510(k) Number	(if known):		
Device Name:	Dimension Vista TM I	Digoxin (DIG) Fle	ex® reagent cartridge
Indications For I	Use:		
measure digoxin are used in the d	ı, a cardiovascular dru	g, in serum and plat of digoxin overc	cartridge is a device intended to lasma. Measurements of digoxin dose and in monitoring levels of
Prescription Use _ (Part 21 CFR 801		AND/OR	Over-The-Counter Use(21 CFR 801)
(PLEASE DO	NOT WRITE BELOW	THIS LINE-CONT NEEDED)	TINUE ON ANOTHER PAGE IF
	Concurrence of CDRH,	Office of In Vitro	Diagnostic Devices (OIVD)
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510(k) Number	(if known):			
Device Name:	Dimension Vista TM G	entamicin (GENT) Flex® reagent cartridge	;
ndications For	Use:			
ntended to mea Measurements o	sure gentamicin, an an obtained by this device	tibiotic drug, in hi are used in the di	gent cartridge is a device uman serum and plasma. agnosis and treatment of icin to ensure appropriate	e
Prescription Use (Part 21 CFR 80		AND/OR	Over-The-Counter Use(21 CFR 801)	
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510(k) Number	(if known):		
Device Name:	Dimension Vista TM cartridge	¹ N-acetylprocainai	mide (NAPA) Flex® reagent
Indications For	Use:		
device intended Measurements	l to measure N-acety	ylprocainamide in l vice maybe used in	A) Flex® reagent cartridge is a human serum and plasma. therapeutic drug monitoring to
Prescription Use (Part 21 CFR 80		AND/OR	Over-The-Counter Use(21 CFR 801)
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In	dica	tions	for	Use

510(k) Number	(if known):			
Device Name:	Dimension Vista TM Pl	henytoin (PTN) F	lex® reagent cartridge	
Indications For	Use:			
measure diphen Measurements of diphenylhydant	ylhydantoin (phenytoir obtained by this device	n), an antiepileption are used in the disease and in monitor	at cartridge is a device intende c drug, in serum and plasma. iagnosis and treatment of ring levels of diphenylhydant	
Prescription Use (Part 21 CFR 80)		AND/OR	Over-The-Counter Use(21 CFR 801)	
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Indications	for Use
510(k) Number	(if known):
Device Name:	Dimension Vista™ Theophylline (THEO) Flex® reagent cartridge
Indications For	Use:

The Dimension VistaTM Theophylline (THEO) Flex® reagent cartridge is a device intended to measure theophylline (a drug used for stimulation of the muscles in the cardiovascular, respiratory, and central nervous systems), in serum and plasma. Measurements obtained by this device are used in the diagnosis and treatment of theophylline overdose or in monitoring levels of theophylline to ensure appropriate therapy.

Prescription Use X	AND/OR	Over-The-Counter Use
(Part 21 CFR 801 Subpart D)		(21 CFR 801)
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