



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

ABBOTT DIABETES CARE INC.
ARUL STERLIN
ASSOCIATE DIRECTOR, REGULATORY AFFAIRS
1360 SOUTH LOOP ROAD
ALAMEDA CA 94202

February 19, 2016

Re: K153330
Trade/Device Name: FreeStyle Precision Neo H Blood Glucose Monitoring System
Regulation Number: 21 CFR 862.1345
Regulation Name: Glucose test system
Regulatory Class: II
Product Code: NBW, LFR
Dated: November 23, 2015
Received: November 24, 2015

Dear Arul Sterlin:

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 Parts 801 and 809); 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 regulations (21 CFR Parts 801 and 809), 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 yours,


Katherine Serrano -S

For: Courtney H. Lias, Ph.D.
Director
Division of Chemistry and Toxicology Devices
Office of In Vitro Diagnostics
and Radiological Health
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

k153330

Device Name

FreeStyle Precision Neo H Blood Glucose Monitoring System

Indications for Use (Describe)

The Freestyle Precision Neo H Blood Glucose Monitoring System is intended for the quantitative measurement of glucose (sugar) in fresh capillary whole blood from the finger, and in venous and arterial whole blood.

The Freestyle Precision Neo H Blood Glucose Monitoring System is intended for testing outside the body (in vitro diagnostic use). It is intended for multiple-patient use in professional healthcare settings as an aid to monitor the effectiveness of a diabetes control program. This system should only be used with single-use, auto-disabling lancing devices.

The system should not be used for the diagnosis of or screening for diabetes or for neonatal testing.

The Freestyle Precision Neo H Blood Glucose Test Strips are for use with the Freestyle Precision Neo H Meter to quantitatively measure glucose (sugar) in fresh capillary whole blood from the finger, and from venous and arterial whole blood.

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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510(k) Summary

According to the requirements per 21 CFR §807.92, the following information provides sufficient detail to understand the basis for a determination of substantial equivalence.

Date Prepared:	February 17, 2016
Company:	Abbott Laboratories
Division:	Abbott Diabetes Care, Inc.
Street Address:	1360 South Loop Road
City, State Zip:	Alameda, CA 94502
Telephone No:	510-749-5400
Fax No:	510-864-4791
Contact Person:	Arul Sterlin Tel No. 510-864-4310 Fax No. 510-864-4791 arul.sterlin@abbott.com
Proprietary Name:	FreeStyle Precision Neo H Blood Glucose Monitoring System
Common Name:	Glucose Test System
Classification Name:	Glucose Dehydrogenase, Glucose, Class II (21 CFR§ 862.1345) Product codes: NBW, LFR
Predicate Device:	FreeStyle Precision Pro Blood Glucose and Beta-Ketone Monitoring System (k132511)
Legal Manufacturer:	Establishment: Abbott Diabetes Care Ltd. Range Road Witney, Oxon OX29 OYL, UK
U.S. Contact	Establishment: Abbott Diabetes Care Inc. 1360 South Loop Road Alameda, CA 94502

Intended Use:

The Freestyle Precision Neo H Blood Glucose Monitoring System is intended for the quantitative measurement of glucose (sugar) in fresh capillary whole blood from the finger, and in venous and arterial whole blood.

The Freestyle Precision Neo H Blood Glucose Monitoring System is intended for testing outside the body (in vitro diagnostic use). It is intended for multiple-patient use in professional healthcare settings as an aid to monitor the effectiveness of a diabetes control program. This system should only be used with single-use, auto-disabling lancing devices.

The system should not be used for the diagnosis of or screening for diabetes or for neonatal testing.

The Freestyle Precision Neo H Blood Glucose Test Strips are for use with the Freestyle Precision Neo H Meter to quantitatively measure glucose (sugar) in fresh capillary whole blood from the finger, and from venous and arterial whole blood.

Description of the Device:

The FreeStyle Precision Neo H meter provides the following features:

- Quantitative measurement of glucose in capillary, venous and arterial whole blood samples
- Quality Control Reminder
- Out-of-Range Indicators

The FreeStyle Precision Neo H Meter is for use by healthcare professionals (HCPs) for multiple-patient use. The FreeStyle Precision Neo H Meter, in conjunction with the FreeStyle Precision Neo H Blood Glucose Test Strips, works on the principal of amperometric technology, measuring glucose by its reaction with Glucose Dehydrogenase (GDH) in blood samples or control solutions, through electrical mediation.

The FreeStyle Precision Neo H System is compatible with the following components and accessories:

- FreeStyle Precision Neo H Blood Glucose Test Strips
- MediSense Glucose and Ketone Control Solutions
- FreeStyle Auto-Assist Neo Data Management System
- USB Cable

Principles of Operation:

The FreeStyle Precision Neo H Meter (in conjunction with blood glucose test strips) utilizes amperometric technology to quantitatively measure the glucose concentration in whole blood samples (capillary from the finger tip, venous and arterial) and in MediSense Glucose & Ketone Control Solutions.

The FreeStyle Precision Neo H Meter measures glucose electrically. The glucose biosensor is capable of recognizing the glucose present in whole blood or control solutions by virtue of the glucose specificity of the enzyme GDH present on the glucose test strip. The electrons liberated by this reaction are transferred via a co-factor and mediator to the meter where they are read as a small electrical current. The size of the current is directly proportional to the level of the glucose in the applied sample.

The apply blood symbol is displayed for the user to apply blood to the test strip until the meter begins the test. The meter detects trigger current from the test strip when enough blood has covered the strip electrodes and the test countdown will start. When the countdown is complete a test result is displayed on the meter screen. The unit of measure displayed on the meter screen is fixed in mg/dL and cannot be modified by the user.

Substantial Equivalence:

The FreeStyle Precision Neo H Blood Glucose Monitoring System is substantially equivalent to the predicate, which was cleared by the Agency on December 24, 2013, to market under k132511: FreeStyle Precision Pro Blood Glucose and β -Ketone Monitoring System. The results obtained from performance studies and clinical studies demonstrate that the FreeStyle Precision Neo H Blood Glucose Monitoring System is safe and effective for its intended use and technological characteristics, and therefore, substantially equivalent to the predicate device (k132511).

Comparison to Predicate Device:

The similarities and differences between the FreeStyle Precision Neo H Blood Glucose Monitoring System and the predicate (k132511) are highlighted in the table below.

	Proposed Device	Predicate Device
PRODUCT NAME	FreeStyle Precision Neo H Blood Glucose Monitoring System (k153330)	FreeStyle Precision Pro Blood Glucose and Beta-Ketone Monitoring System (k132511)
CHARACTERISTICS		
Fundamental Technology	The FreeStyle Precision Neo H System (in conjunction with blood glucose test strips) utilizes amperometric technology to quantitatively measure the glucose concentration in whole blood samples.	Same
Glucose Hematocrit Range	15-65%	Same
Glucose Operating Range	20-500 mg/dL	Same
Use Life	3 years	Same
Cleaning and Disinfection Cycles	10,950 cycles validated	Same
Operating Humidity	10-90%	Same
Glucose Sample volume	0.6 microliters	Same
Glucose Hematocrit Compensation	Yes	Same
Glucose Assay Time	5 seconds	Same
Operating Temperature	59° to 104°F	Same

	Proposed Device	Predicate Device
PRODUCT NAME	FreeStyle Precision Neo H Blood Glucose Monitoring System (k153330)	FreeStyle Precision Pro Blood Glucose and Beta-Ketone Monitoring System (k132511)
CHARACTERISTICS		
Indications for Use	<p>The Freestyle Precision Neo H Blood Glucose Monitoring System is intended for the quantitative measurement of glucose (sugar) in fresh capillary whole blood from the finger, and in venous and arterial whole blood when used within 30 minutes after collection.</p> <p>The Freestyle Precision Neo H Blood Glucose Monitoring System is intended for testing outside the body (in vitro diagnostic use). It is intended for multiple-patient use in professional healthcare settings as an aid to monitor the effectiveness of a diabetes control program. This system should only be used with single-use, auto-disabling lancing devices.</p> <p>The system should not be used for the diagnosis of or screening for diabetes.</p>	<p>The Freestyle Precision Pro Blood Glucose and β-Ketone Monitoring System is intended for the quantitative measurement of glucose (sugar) in fresh capillary whole blood from the finger, and from venous, arterial and neonatal whole blood, and for the quantitative measurement of β-ketone (beta-hydroxybutyrate) in flesh capillary whole blood from the finger and venous, arterial, and neonatal whole blood when used within 30 minutes after collection.</p> <p>The Freestyle Precision Pro Blood Glucose and β-Ketone Monitoring System is intended for testing outside the body (in vitro diagnostic use) and is intended for multiple-patient use in professional healthcare settings as an aid to monitor the effectiveness of a diabetes control program. This system should only be used with single use, auto-disabling lancing devices.</p> <p>The system should not be used for the diagnosis of or screening for diabetes.</p> <p>The Freestyle Precision Pro Blood Glucose Test Strips are for use with the Freestyle Precision</p>

	Proposed Device	Predicate Device
PRODUCT NAME	FreeStyle Precision Neo H Blood Glucose Monitoring System (k153330)	FreeStyle Precision Pro Blood Glucose and Beta-Ketone Monitoring System (k132511)
CHARACTERISTICS		
	<p>The Freestyle Precision Neo H Blood Glucose Test Strips are for use with the Freestyle Precision Neo H Meter to quantitatively measure glucose (sugar) in fresh capillary whole blood sample drawn from the fingertips, and from venous and arterial whole blood.</p>	<p>Pro Blood Glucose and β-Ketone Meter to quantitatively measure glucose (sugar) in fresh capillary whole blood samples drawn from the fingertips and from venous, arterial, and neonatal whole blood. The Freestyle Precision Pro Blood β-Ketone Test Strips are for use with the Freestyle Precision Pro Blood Glucose and P-Ketone Meter to quantitatively measure β-ketone in fresh capillary whole blood samples drawn from the fingertips and from venous, arterial, and neonatal whole blood.</p> <p>Freestyle Precision Pro Blood Glucose and β-Ketone Monitoring System enables automatic transmission of stored data to a data management system using the docking station (optional), a data upload cable (optional), or wirelessly (optional) in a WiFi enabled facility when the meter and data management systems are properly configured.</p>
Product Classification Code	NBW, LFR	NBW, JIN, JQP, LFR
Glucose Sample Types	Fresh capillary whole blood from the finger, venous and arterial whole blood samples	Fresh capillary whole blood from the finger, venous, arterial, and neonatal whole blood samples
Calibration	ROM	Barcode scanner
Altitude	10,000 feet above sea level	7,200 feet above sea level
Data Management System	FreeStyle Auto Assist Neo Data Management System	Precision Web Point-of-Care Health Management System
Data Upload	USB Data Cable	USB Data Cable, Docking Station or Wireless

	Proposed Device	Predicate Device
PRODUCT NAME	FreeStyle Precision Neo H Blood Glucose Monitoring System (k153330)	FreeStyle Precision Pro Blood Glucose and Beta-Ketone Monitoring System (k132511)
CHARACTERISTICS		
Compatible Test Strips	FreeStyle Precision Neo H Blood Glucose Test Strips	FreeStyle Precision Pro Blood Glucose Test Strips and FreeStyle Precision Pro Blood β-Ketone Test Strips