

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

August 6, 2015

APEX BIOTECHNOLOGY CORP.
HSUE-MEI LEE
MANAGER OF QUALITY ASSURANCE DEPARTMENT
NO. 7, LI-HSIN RD. V, HSINCHU SCIENCE PARK
HSINCHU, TAIWAN, ROC

Re: K142689

Trade/Device Name: GAL-1F Blood Glucose Monitoring System,

GAL-1F Pro Blood Glucose Monitoring System

Regulation Number: 21 CFR 862.1345 Regulation Name: Glucose test system

Regulatory Class: II

Product Code: CGA, NBW

Dated: July 7, 2015 Received: July 8, 2015

### Dear Hsue-Mei Lee:

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

<u>http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm</u> 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,

## Courtney H. Lias -S

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

## DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

## Indications for Use

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

510(k) Number (if known)

k142689

Device Name

GAL-1F Blood Glucose Monitoring System

only be used by a single patient and it should not be shared. It is not indicated for the diagnosis or screening of diabetes or indicated for lay use by people with diabetes, as an aid to monitoring blood glucose levels in Diabetes Mellitus and should during steady-state (when glucose is not changing rapidly). Testing is done outside the body (In Vitro diagnostic use). It is Indications for Use (Describe)

The GAL-IF Blood Glucose Monitoring System is intended for the quantitative measurement of glucose in fresh capillary for neonatal use. whole blood samples drawn from the fingertips, forearm, or palm. Alternative site testing should be performed only

Over-The-Counter Use (21 CFR 801 Subpart C)	Prescription Use (Part 21 CFR 801 Subpart D)
	Type of Use (Select one or both, as applicable)

# CONTINUE ON A SEPARATE PAGE IF NEEDED.

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

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of this information collection, including suggestions for reducing this burden, to: and review the collection of information. Send comments regarding this burden estimate or any other aspect time to review instructions, search existing data sources, gather and maintain the data needed and complete The burden time for this collection of information is estimated to average 79 hours per response, including the

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

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."

# 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.

510(k) Number (if known) k142689

Device Name

GAL-IF Pro Blood Glucose Monitoring System

Indications for Use (Describe)

only during steady-state (when glucose is not changing rapidly). Testing is done outside the body (In Vitro diagnostic indicated for the diagnosis or screening of diabetes or for neonatal use. blood glucose levels in Diabetes Mellitus. This system is only used with single-use, auto-disabling lancets. It is not use). It is indicated to be used for multiple patients in a clinical setting by healthcare professionals, as an aid to monitoring capillary whole blood samples drawn from the fingertips, forearm, or palm. Alternative site testing should be performed The GAL-IF Pro Blood Glucose Monitoring System is intended for the quantitative measurement of glucose in fresh

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)

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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

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### 510(k) Summary

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Date Prepared	Aug 04, 2015
Trade Names	GAL-1F Blood Glucose Monitoring System
	GAL-1F Blood Glucose Test Strips
	GAL-1F Pro Blood Glucose Monitoring
	GAL-1F Pro Blood Glucose Test Strips
Classification	Glucose test system, 21 CFR 862.1345, Class II
<b>Product Codes</b>	CGA, NBW
<b>Predicate Devices</b>	GAL-1E and GAL-1E Multi (k113547) Blood Glucose Monitoring Systems
Dovice Description	The GAL-1F blood glucose monitoring system consists of the GAL-1F meter
<b>Device Description</b>	and GAL-17 blood glucose mointoring system consists of the GAL-17 meter and GAL-17 Test Strips. It is used for testing of blood glucose by self-testers at
	home. The GAL-1F Pro blood glucose monitoring system consists of the
	GAL-1F Pro meter and GAL-1F Pro Test Strips. It is used for testing of blood
	glucose by professional testers in healthcare facilities. The GAL-1F and GAL-
	1F Pro systems are identical other than trade names and details of product
	labeling.

### 510(k) Summary (Continued)

the GAL-1F Blood Glucose Monitoring System is intended for the quantitative deasurement of glucose in fresh capillary whole blood samples drawn from the ingertips, forearm, or palm. Alternative site testing should be performed only during eady-state (when glucose is not changing rapidly). Testing is done outside the body in Vitro diagnostic use). It is indicated for lay use by people with diabetes, as an aid to conitoring blood glucose levels in Diabetes Mellitus and should only be used by a ingle patient and it should not be shared. It is not indicated for the diagnosis or creening of diabetes or for neonatal use.  The GAL-1F Pro Blood Glucose Monitoring System is intended for the quantitative deasurement of glucose in fresh capillary whole blood samples drawn from the ingertips, forearm, or palm. Alternative site testing should be performed only during eady-state (when glucose is not changing rapidly). Testing is done outside the body in Vitro diagnostic use). It is indicated to be used for multiple patients in a clinical enting by healthcare professionals, as an aid to monitoring blood glucose levels in iabetes Mellitus. This system is only used with single-use, auto-disabling lancets. It is not indicated for the diagnosis or screening of diabetes or for neonatal use.
the GAL-1F and GAL-1F Pro meters uses the same test strip, test strip holder, and test
gorithm as the predicate. The test strip holder has been moved from the top of the redicate meter to the bottom of the new meter and the test strip ejection mechanism of
be predicate has been eliminated. Software has been modified to support data ownload functionality.
oftware verification and validation, linearity and detection limit testing, EMC and
lectrical Safety testing, and drop testing were done. Disinfection and "robustness" sting were done to qualify several recommended disinfection solutions. Results
emonstrate substantial equivalence to the predicate device.
n accuracy user study was performed with blood testing by 114 self-testers and with
rofessional testing. 106 unaltered samples were tested by self-testers. An Ease-of-Use and Ease-of-Understanding (of the instructions for use) questionnaire were
dministered. Results demonstrate substantial equivalence to the predicate.
linical and non-clinical testing show that the GAL-1F / GAL-1F Pro Blood Glucose
Ionitoring System perform in a substantially equivalent manner to that of the redicate device. We conclude that the GAL-1F / GAL-1F Pro systems are
ibstantially equivalent to the predicate.