

510(k) Summary

Submitter's Name/Address

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Contact Person

Mark Littlefield
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ADD Regulatory Affairs
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Date of Preparation of this Summary:

Current date prepared

Device Trade or Proprietary Name:

HDL

Device Common/Usual Name or Classification Name: Direct HDL

Classification Number/Class:

75LBS /Class I

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.

The assigned 510(k) number is: K981224

Test Description:

Direct HDL is an *in vitro* diagnostic assay for the quantitative determination of high-density lipoprotein cholesterol in serum or plasma. The Direct HDL assay is a two reagent format and depends on the properties of a unique detergent. This detergent solubilizes only the HDL lipoprotein particles, thus releasing the HDL cholesterol to react with cholesterol esterase and cholesterol oxidase, in the presence of chromogens to produce color. In addition to selectively disrupting the HDL lipoprotein particles, this unique detergent also inhibits the reaction of the cholesterol enzymes with LDL, VLDL, and chylomicron lipoproteins by adsorbing to their surfaces. A polyanion is contained in the first reagent to assist with complexing LDL, VLDL, and chylomicron lipoproteins, further enhancing the selectivity of the detergent and enzymes for HDL cholesterol.

K981224

Intended Use:

The Direct HDL assay is used for the quantitation of high-density lipoprotein cholesterol in serum or plasma.

Performance Characteristics:

Comparative performance studies were conducted using the ALCYON™ Analyzer. The Direct HDL assay method comparison yielded acceptable correlation with the Boehringer Mannheim Direct HDL assay on the Hitachi 717 Analyzer. The correlation coefficient = 0.9882 slope = 1.067, and Y-intercept = 0.372 mg/dL. Precision studies were conducted using the Direct HDL assay. Within-run, between-run, and between-day studies were performed using two levels of control material. The total %CV for Level 1/Panel 141 control is 4.6% and Level 2/Panel 142 is 3.6%. The Direct HDL assay is linear up to 180.0 mg/dL. The limit of quantitation (sensitivity) of the Direct HDL assay is 8.0 mg/dL. These data demonstrate that the performance of the Direct HDL assay is substantially equivalent to the performance of the Boehringer Mannheim Direct HDL assay on the Hitachi 717 Analyzer.

Conclusion:

The Direct HDL assay is substantially equivalent to the Boehringer Mannheim Direct HDL assay on the Hitachi 717 Analyzer as demonstrated by results obtained in the studies.

AUG 3 1998

Food and Drug Administration
2098 Gaither Road
Rockville MD 20850

Mark Littlefield
Section Manager, Regulatory Affairs
Abbott Laboratories
1920 Hurd Drive
Irving, Texas 75038

Re: K981224
Direct HDL
Regulatory Class: I
Product Code: LBS
Dated: June 29, 1998
Received: June 30, 1998

Dear Mr. Littlefield:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to 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). 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 (Pre-market Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Current Good Manufacturing Practice requirements, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic QS inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

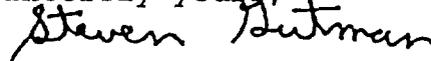
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Under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88), this device may require a CLIA complexity categorization. To determine if it does, you should contact the Centers for Disease Control and Prevention (CDC) at (770) 488-7655.

This letter will allow you to begin marketing your device as described in your 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 advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4588. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "<http://www.fda.gov/cdrh/dsmamain.html>".

Sincerely yours,



Steven I. Gutman, M.D., M.B.A.
Director
Division of Clinical
Laboratory Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

510(k) Number (if known): K981224

Device Name: Direct HDL

Indications For Use:

The Direct HDL assay is used for the quantitation of high-density lipoprotein cholesterol levels in human serum or plasma. Low Direct HDL measurements are used in the diagnosis and treatment of coronary artery disease.

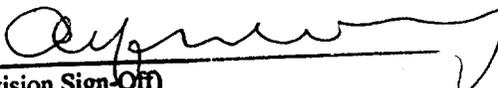
(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

_____ Concurrence of CDRH, Office of Device Evaluation (ODE) _____

Prescription Use
(Per 21 CFR 801.109)
(Optional Format 1-2-96)

OR

Over-The-Counter Use _____



(Division Sign-Off)
Division of Clinical Laboratory Devices
510(k) Number K981224

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