

APR 16 2002

K020740

Roche ONLINE Theophylline Assay

510(k) Summary

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- Introduction** According to the requirements of 21 CFR 807.92, the following information provides sufficient detail to understand the basis for a determination of substantial equivalence.
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- 1) Submitter name, address, contact** Roche Diagnostics Corporation
9115 Hague Rd.
Indianapolis, IN 46250
(317) 845-2000
- Contact Person: Mike Flis
- Date Prepared: April 2, 2002
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- 2) Device name** Roche ONLINE Theophylline
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- 3) Predicate device** We claim substantial equivalence to the COBAS INTEGRA Theophylline assay.
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- 4) Device Description** The Roche ONLINE Theophylline assay contains an in vitro diagnostic reagent system indicated for the quantitative determination of theophylline, a bronchodilator, widely used to treat patients with asthma, apnea (temporary asphyxia), and other obstructive lung diseases, in human serum or plasma on automated clinical chemistry analyzers. Measurements obtained by the device are used in the diagnosis and treatment of theophylline overdose and in monitoring levels of theophylline to ensure appropriate therapy. The proposed labeling indicates that the Roche/Hitachi 911, 912, 917, and Modular P analyzers can be used with the Roche ONLINE Theophylline reagent kits.
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- 5) Intended use** For the quantitative determination of theophylline in human serum or plasma on automated clinical chemistry analyzers.
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Continued on next page

510(k) Summary, continued

6) Comparison to predicate device The Roche ONLINE Theophylline was evaluated for several performance characteristics, including precision, lower detection limit, method comparison, specificity, and interfering substances. All of the evaluation studies gave acceptable results compared to the predicate device. These experiments provide evidence that the Roche ONLINE Theophylline Assay is substantially equivalent to the currently marketed Roche COBAS INTEGRA Theophylline Assay. The following table presents the precision and method comparison results.

Roche ONLINE Theophylline				Roche COBAS INTEGRA Theophylline (Predicate)		
Roche/Hitachi 917 versus Theophylline assay on the COBAS INTEGRA 700 n = 103 y = 0.976x + 0.011 R = 0.996 Range = 0.62 to 39.6 µg/mL				Versus COBAS FARA II Theophylline assay n = 138 y = 0.963x + 0.065 R = 0.998 Range = 0.16 to 36.3 µg/mL		
Precision:	Level 1	Level 2	Level 3	Level 1	Level 2	Level 3
Mean (µg/mL)	4.87	14.51	24.31	5.4	14.2	22.5
CV% (within run)	1.0	0.5	0.9	1.6	1.9	1.8
CV% (total)	1.9	1.7	2.1	2.6	2.6	2.8



DEPARTMENT OF HEALTH & HUMAN SERVICES

Food and Drug Administration
2098 Gaither Road
Rockville MD 20850

Mr. Mike Flis
Regulatory Affairs Principal
Roche Diagnostics Corporation
9115 Hague Road
P.O. Box 50457
Indianapolis, Indiana 46250-0457

APR 24 2002

Re: k020740
Trade/Device Name: Roche ONLINE Theophylline
Regulation Number: 21 CFR § 862.3880
Regulation Name: Theophylline Test System
Regulatory Class: II
Product Code: KLS
Dated: March 1, 2002
Received: March 6, 2002

Dear Mr. Flis:

This letter corrects the letter dated April 9, 2002. The indications for use, was amended by Roche and a copy of new indications for use has been added to the file. 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 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.

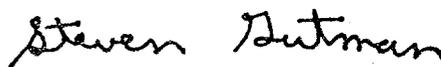
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); 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.

Page 2

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" (21CFR 807.97). Other general information on your responsibilities under the Act may be obtained 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/dsma/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

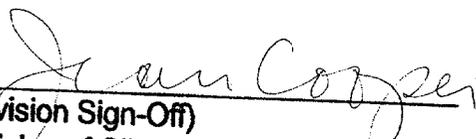
Roche Diagnostics Corporation

510(k) Number (if known): K020740

Device Name: Roche ONLINE Theophylline Assay

Indications for Use:

The Roche ONLINE Theophylline assay contains an in vitro diagnostic reagent system indicated for the quantitative determination of theophylline, a broncodilator, widely used to treat patients with asthma, apnea (temporary asphyxia), and other obstructive lung diseases. 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.


(Division Sign-Off)
Division of Clinical Laboratory Devices

510(k) Number K020740

(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)

OR

Over-The-Counter Use

(Optional Format 1-2-96)