

MAY - 5 2010

**510k Summary**

**LOCI Thyroid Calibrator**

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.

**A. 510(k) Number: k100778**

**B. Date of Preparation:** May 3, 2010

**C. Proprietary and Established Names:**

**LOCI Thyroid Calibrator**

**D. Applicant:**

Siemens Healthcare Diagnostics Inc.

P.O. Box 6101, Newark, DE 19714-6101

Rose T. Marinelli, Regulatory Technical Specialist

Office Number: (302) 631-8805 fax Number: (302) 631-6299

**E. Regulatory Information:**

LOCI THYR Calibrator:

1. Regulation section: 21 CFR § 862.1150 Calibrator
2. Classification: Class II
3. Product Code: JIX – Calibrator, Secondary
4. Panel: Immunology

**F. Predicate Device:**

The predicate device used to demonstrate substantial equivalence to the LOCI Thyroid Calibrator is the current LOCI Thyroid Calibrator cleared under k073604.

**G. Device Description:**

The LOCI THYR CAL is a multi-analyte, liquid, bovine serum albumin based product containing triiodothyronine, thyroxine and human thyroid stimulating hormone. The kit consists of ten vials with two vials per level containing 2.0 mL per vial.

**H. Intended Use:**

The LOCI THYR CAL is an *in vitro* diagnostic product for the calibration of the LOCI Free Triiodothyronine (FT3), LOCI Free Thyroxine (FT4L) and LOCI Thyroid Stimulating Hormone (TSHL) methods on the Dimension® EXL™ integrated chemistry system with LOCI® Module.

**I. Substantial Equivalence Information:**

The LOCI Thyroid Calibrator and the current Thyroid Calibrator as the predicate were compared. The following table provides a comparison of the important similarities and differences:

Feature	LOCI THYR Calibrator (RC610A)	LOCI THYR Calibrator (RC610) (k073604)
Intended Use	The LOCI THYR CAL is an <i>in vitro</i> diagnostic product for the calibration of the LOCI Free Triiodothyronine (FT3), LOCI Free Thyroxine (FT4L) and LOCI Thyroid Stimulating Hormone (TSHL) methods on the Dimension® EXL™ integrated chemistry system with LOCI® Module.	The LOCI THYR CAL is an <i>in vitro</i> diagnostic product for the calibration of the LOCI Free Thyroxine (FT4L) and LOCI Thyroid Stimulating Hormone (TSHL) methods on the Dimension® EXL™ integrated chemistry system with LOCI® Module
Matrix	Bovine Serum Albumin	Bovine Serum Albumin
Levels	5 Levels	5 Levels
Preparation	Liquid	Liquid
Storage	2 – 8 °C	2 – 8 °C

**J. Conclusion:**

The LOCI THYR calibrator (RC610A) is substantially equivalent to the current LOCI Thyroid Calibrator cleared under k073604.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

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c/o Ms. Rose T. Marinelli  
Regulatory Technical Specialist  
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MS 514  
Newark, DE 19714-6101

Food & Drug Administration  
10903 New Hampshire Avenue  
Building 66  
Silver Spring, MD 20993

MAY 05 2010

Re: k100778  
Trade Name: LOCI Thyroid Calibrator  
Regulation Number: 21 CFR §862.1150  
Regulation Name: Calibrator  
Regulatory Class: Class II  
Product Codes: JIX  
Dated: March 18, 2010  
Received: March 19, 2010

Dear Ms. Marinelli:

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 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); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820).

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If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of *In Vitro* Diagnostic Device Evaluation and Safety at (301) 796-5450. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at (301) 796-5760. 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 Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or ( 301 ) 796-5680 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,



Courtney C. Harper, Ph.D.  
Director  
Division of Chemistry and Toxicology  
Office of *In Vitro* Diagnostic Device  
Evaluation and Safety  
Center for Devices and Radiological Health

Enclosure

**Indications for Use Form**

510(k) Number (if known): K100778

Device Name: LOCI Thyroid Calibrator

**Indications for Use:** The LOCI THYR CAL is an *in vitro* diagnostic product for the calibration of the LOCI Free Triiodothyronine (FT3), LOCI Free Thyroxine (FT4L) and LOCI Thyroid Stimulating Hormone (TSHL) methods on the Dimension® EXL™ integrated chemistry system with LOCI® Module.

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

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

Concurrence of CDRH, Office of In Vitro Diagnostic Devices (OIVD)



Division Sign-Off  
Office of In Vitro Diagnostic Device  
Evaluation and Safety

510(k) K100778