DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
2098 Gaither Road
Rockville MD 20850

Bola Nicholson MT (ASCP)
Technical Manager
Thermo Electron Corp.
331 South 104th Street
Louisville, CO 80027

AUG 3 0 2004

Re: k041657
Trade/Device Name: Thermo Electron Infinity™ Angiotensin Converting Enzyme (ACE) Reagent Kit
Thermo Electron Infinity™ Angiotensin Converting Enzyme (ACE) Calibrator
Thermo Electron Infinity™ Angiotensin Converting Enzyme (ACE) Normal and Elevated Controls
Regulation Number: 21 CFR 862.1090
Regulation Name: Angiotensin converting enzyme (A.C.E.) test system
Regulatory Class: Class II
Product Code: KQN, JIS, JJX
Dated: June 18, 2004
Received: June 18, 2004

Dear Ms.Nicholson:

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

This letter will allow you to begin marketing your device as described in your Section 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 information about the application of labeling requirements to your device, or questions on the promotion and advertising of your device, please contact the Office of *In Vitro* Diagnostic Device Evaluation and Safety at (301) 594-3084. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). 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) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html.

Sincerely yours,

Jean M. Cooper MS, DVM.

Jean M. Cooper, MS, D.V.M.
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

510(k) Number (if known): **K041657**

Device Name:

1. **Thermo Electron Infinity™ Angiotensin Converting Enzyme (ACE) Reagent Kit.**

2. **Thermo Electron Infinity™ Angiotensin Converting Enzyme (ACE) Calibrator.**

3. **Thermo Electron Infinity™ Angiotensin Converting Enzyme (ACE) Normal and Elevated Controls.**

Indications For Use:

1. **The Thermo Electron Infinity™ ACE Reagent Kit is intended for the quantitative determination of ACE in human serum or plasma. The product is for in vitro diagnostic use only.**
   Measurements obtained by this device are used in the diagnosis and treatment of diseases such as sarcoidosis, a disease characterized by the formation of nodules in the lungs, bones, and skin, and Gaucher's disease, a hereditary disorder affecting the spleen.

2. **The Thermo Electron Infinity™ ACE Calibrator is intended for the calibration of ACE assays. The product is for in vitro diagnostic use only.**

3. **The Thermo Electron ACE Normal and Elevated Controls are intended for monitoring the accuracy and precision of ACE assays. The product is for in vitro diagnostic use only.**

Prescription Use ___√___ AND/OR Over-The-Counter Use _____
(Part 21 CFR 801 Subpart D) (21 CFR 807 Subpart C)

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

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

Carol C Benson
Division Sign-Off

Office of In Vitro Diagnostic
Device Evaluation and Safety

510(k) K041657