

SPECIAL 510(k): Device Modification  
OIVD Review Memorandum (Decision Making Document is Attached)

To: THE FILE

RE: K080322

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This 510(k) submission contains information/data on modifications made to the SUBMITTER'S own Class II device requiring 510(k). The following items are present and acceptable:

1. The name and 510(k) number of the SUBMITTER'S previously cleared device:  
HY●TEC Automated EIA System for Total IgE and Specific IgE (k941278), *page 1*.
2. Submitter's statement that the **INDICATION/INTENDED USE** of the modified device as described in its labeling **HAS NOT CHANGED** (*page 2*) along with the proposed labeling which includes instructions for use and package labeling (*page 40*).
3. A description of the device **MODIFICATION(S)**, including photographs (*page 14*), user's manual (*page 43*) in sufficient detail to demonstrate that the **FUNDAMENTAL SCIENTIFIC TECHNOLOGY** of the modified device **has not changed**. **The changes included:**
  - a. Addition of a new instrument to the HY●TEC analyzer family
  - b. New instrument used for allergen specific IgE measurement only (not total IgE)
  - c. Addition of a zero calibrator
  - d. Change of incubation times and temperatures
  - e. Hardware changes: 8 reagent pipetting tips instead of 1; 8 dual cannula wash tips instead of 4; separate robotic arm to move microplates to and from the plate reader; and design improvements in circuits, motors, diluters, etc.
4. **Comparison Information** (similarities and differences) to applicant's legally marketed predicate device (*pages 14-17*), labeling, intended use, physical characteristics, and Design Control Activities (*pages 17-21*) including: software validation; validation of instrument functions; and analytical performance validation (front to back effects in large assays; limit of detection; limitation of quantitation; intra- and inter-assay precision; correlation with the predicate device; dilution linearity; and stability of the zero calibrator).
5. **A Design Control Activities Summary** which includes:
  - a) Identification of Risk Analysis method(s) used to assess the impact of the modification on the device and its components (*page 184*), and the results of the analysis;
  - b) Based on the Risk Analysis, an identification of the verification and/or validation activities required, including methods or tests used and acceptance criteria to be applied (*pages 17-21*);
  - c) A declaration of conformity with design controls (*page 209*). The declaration of conformity should include:
    - i) A statement signed by the individual responsible, that, as required by the risk analysis, all verification and validation activities were performed by the designated individual(s) and the results demonstrated that the predetermined acceptance criteria were met (*page 210*), and
    - ii) A statement signed by the individual responsible, that the manufacturing facility is in conformance with design control procedure requirements as specified in 21 CFR 820.30 and the records are available for review (*page 210*).

6. **A Truthful and Accurate Statement** (page 7), a **510(k) Summary** (page 22) the **Indications for Use Enclosure** (*additional information received 3/3/08*) and **FDA 3674: Certification of Compliance, under 42 U.S.C § 282(j)(5)(B), with Requirements of ClinicalTrials.gov Data Bank (42 U.S.C § 282(j))** (*cover letter*).

The labeling for this modified subject device has been reviewed to verify that the indication/intended use for the device is unaffected by the modification. In addition, the submitter's description of the particular modification(s) and the comparative information between the modified and unmodified devices demonstrate that the fundamental scientific technology has not changed. The submitter has provided the design control information as specified in The New 510(k) Paradigm and on this basis, I recommend the device be determined substantially equivalent to the previously cleared (or their preamendment) device.