



**Bio-Rad  
Laboratories**

Diagnostics Group  
9500 Jeronimo Road  
Irvine, California 92618-2017  
Telephone: (949) 598-1200

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## 510(k) Summary

### Submitter

Bio-Rad Laboratories  
9500 Jeronimo Road  
Irvine, CA  
(949)598-1285  
Fax (949)598-1555

### Contact Person

Elizabeth Platt

### Date of Summary Preparation

December 14, 1998

### Device (Trade & Common Name)

Liquichek Anti-Sm Control, EIA

### Classification Name

Class II, 82LKP  
CFR 866.5100: Anti-Sm Antibody, Antigen and Control.

### Devices to Which Substantial Equivalence is Claimed

Helix Enzyme Immunoassay Antinuclear Antibody Screening Test Kit  
Helix Diagnostics  
West Sacramento, California  
K954723

### Statement of Intended Use

Liquichek Anti-Sm Control, EIA is intended for use as an unassayed quality control to monitor enzyme immunoassay procedures for the detection of Smith (Sm) autoantibodies.



Description of the Device

Liquichek Anti-Sm Control, EIA is prepared from human serum with added preservatives and stabilizers. This product is provided in liquid form for convenience.

This product contains 0.1% sodium azide as a preservative.

Statement of How Technological Characteristics Compare to Substantial Equivalent Device

A table is provided below comparing the similarities between the Bio-Rad Liquichek Anti-Sm Control, EIA and the device to which substantial equivalence is claimed.

	Helix Enzyme Immunoassay Antinuclear Antibody Screening Test Kit	Bio-Rad Liquichek Anti-Sm Control, EIA
Intended Use	A qualitative enzyme immunoassay (EIA) for screening the presence of antinuclear antibodies (ANAs) in human serum as an aid in the diagnosis of certain systemic rheumatic diseases.	An unassayed quality control serum for monitoring enzyme immunoassay procedures for the detection of Smith (Sm) autoantibodies.
Form	Liquid	Liquid
Matrix	Human Serum	Human Serum
Levels	Negative, Positive, Cutoff	Negative, Positive, High Positive
Storage	2-8°C	2-8°C
Analytes	Total ANAs against: DNA (dsDNA, nDNA) Histones SS-A/Ro SS-B/La Sm SmRNP Scl-70 Jo-1 Centromeric antigens Sera positive for Immunofluorescent (IFA) Hep-2 ANAs	Anti-Sm
Open Vial Claim	Shelf life	30 Days at 2-8°C



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

DEC 22 1998

Food and Drug Administration  
2098 Gaither Road  
Rockville MD 20850

Ms. Elizabeth Platt  
Staff Regulatory Affairs Representative  
BIO-RAD LABORATORIES  
9500 Jeronimo Road  
Irvine, CA 92618-2017

Re: K984479  
Trade Name: Liquichek Anti-Sm Control, EIA Model #208  
Regulatory Class: II  
Product Code: LKP  
Dated: December 14, 1998  
Received: December 16, 1998

Dear Ms. Platt:

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 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). 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.

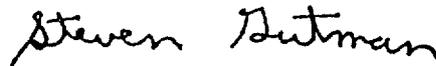
If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially 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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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/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

510(k) Number: KG8 4479

Device Name: Liquichek Anti-Sm Control, EIA

Indications for Use:

Liquichek Anti-Sm Control, EIA is intended for use as an unassayed quality control to monitor enzyme immunoassay procedures for the detection of Smith (Sm) autoantibodies.

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

(Concurrence of CDRH, Office of Device Evaluation)

*Peter E. Malin*

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

Prescription Use

OR Over-The Counter Use \_\_\_\_\_