Summary of Safety and Effectiveness
Liquichek™ ANA Control, Centromere Pattern, Positive

1.0 Submitter

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Date of Summary Preparation

December 20, 2002

2.0 Device Identification

Product Trade Name: Liquichek™ ANA Control Speckled Pattern, Positive
Common Name: Antinuclear Antibody, Indirect Immunofluorescent, Antigen, Control
Classifications: Class II
Product Code: 82DHN
Regulation Number: 21 CFR 866.5100

3.0 Device to Which Substantial Equivalence is Claimed

Liquichek™ ANA Control, Centromere Pattern
Bio-Rad Laboratories
510 (k) Number: K984397

4.0 Description of Device

This product is prepared from human serum with added preservatives. The control is provided in liquid form for convenience.
5.0 **Statement of Intended Use**

The new Liquichek™ ANA Control, Centromere Pattern, Positive, is intended for use as an unassayed quality control to monitor indirect immunofluorescent testing of antinuclear antibodies (ANA).

6.0 **Comparison of the new device with the Predicate Device**

This control is substantially equivalent to the following quality control material for autoimmune analysis that is currently in the market:

Liquichek™ ANA Control, Centromere Pattern
Bio-Rad Laboratories

510 (k) Number: K984397

**Table 1.** Similarities and Differences between new and predicate device.

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Liquichek™ ANA Control, Centromere Pattern, Positive (New Device)</th>
<th>Liquichek™ ANA Control, Centromere Pattern (Predicate Device)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Similarities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intended Use</td>
<td>The new Liquichek™ ANA Control, Centromere Pattern, Positive, is intended for use as an unassayed quality control to monitor indirect immunofluorescent testing of antinuclear antibodies (ANA).</td>
<td>The Liquichek™ ANA Control, Centromere Pattern is intended for use as an unassayed quality control to monitor indirect immunofluorescent testing of antinuclear antibodies (ANA).</td>
</tr>
<tr>
<td>Matrix</td>
<td>Human Serum</td>
<td>Human Serum</td>
</tr>
<tr>
<td>Storage (Unopened)</td>
<td>2°C to 8°C until expiration date</td>
<td>2°C to 8°C until expiration date</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
<td>Liquid</td>
</tr>
<tr>
<td>Analyte</td>
<td>ANA Centromere Pattern</td>
<td>ANA Centromere Pattern</td>
</tr>
</tbody>
</table>
### Differences

| Stability (Opened) | Once opened the analyte will be stable for 60 days. | Once opened the analyte will be stable for 30 days. |

7.0 **Summary of Performance Data**

Stability studies have been performed to determine the open vial stability and shelf life for the Liquichek™ ANA Control Centromere Pattern, Positive. Product claims are as follows:

7.1 Once the control is opened the analyte will be stable for 60 days when stored tightly capped at 2 to 8°C.

7.2 The control is stable for 2 years when stored unopened at 2 - 8°C.

Real time studies will be ongoing to support the shelf life of this product.

All supporting data is retained on file at Bio-Rad Laboratories.
Ms. Yvette Lloyd
Senior Regulatory Affairs Specialist
Bio-Rad Laboratories, QSD
9500 Jeronimo Road
Irvine, CA 92618-2017

Re:  k024222
    Trade/Device Name: Liquichek™ ANA Control, Centromere Pattern, Positive
    Regulation Number: 21 CFR 866.5100
    Regulation Name: Antinuclear antibody immunological test system
    Regulatory Class: Class II
    Product Code: DHN
    Dated: December 20, 2002
    Received: December 23, 2002

Dear Ms. Lloyd:

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" (21 CFR Part 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
Office of In Vitro Diagnostic Device Evaluation and Safety
Center for Devices and Radiological Health

Enclosure
510 (k) Number (if known): K024222

Device Name: Liquichek™ ANA Control, Centromere Pattern, Positive

Indications for Use:

The new Liquichek™ ANA Control, Centromere Pattern, Positive, is intended for use as an unassayed quality control to monitor indirect immunofluorescent testing of antinuclear antibodies (ANA).

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

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription use [ ] or Over-the Counter use [ ]

[Signature]
Division Sign-Off
Division of Clinical Laboratory Devices

510(k) Number (5024222)