510(k) Summary Liquichek Tumor Marker Control K141073

1.0 Submitter

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Contact Person

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Date of Summary Preparation

June 20, 2014

2.0 Device Identification

Liquichek Tumor Marker Control
Multi-Analyte Controls, All Kinds (Assayed)
Clinical Chemistry and Clinical Toxicology Devices
Class I, Reserved
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21 CFR 862.1660

3.0 Device to Which Substantial Equivalence is Claimed

Liquichek Tumor Marker Control Bio-Rad Laboratories Irvine, California

510 (k) Number: K071675

4.0 Description of Device

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Liquichek Tumor Marker Control, a trilevel liquid control is prepared from human source material with added constituents of human and animal origin, stabilizers and preservatives.

The human source material used to manufacture this control was tested by FDA accepted methods and found non-reactive for Hepatitis B Surface Antigen (HBsAg), antibody to Hepatitis C (HCV) and antibody to HIV-1/HIV-2.

JUN 2 3 2014

5.0 Value Assignment

The mean values and the corresponding $\pm 3SD$ ranges printed in this insert were derived from replicate analyses and are specific for this lot of product. The tests listed were performed by the manufacturer and/or independent laboratories using manufacturer supported reagents and a representative sampling of this lot of product. It is recommended that each laboratory establish its own acceptable ranges and use those provided only as guides. Laboratory established ranges may vary from those listed during the life of this control. Variations over time and between laboratories may be caused by differences in laboratory technique, instrumentation and reagents, or by manufacturer test method modifications.

6.0 Intended use

Liquichek Tumor Marker Control is intended for use as an assayed quality control serum to monitor the precision of laboratory testing procedures for the analytes listed in this package insert.

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

The new Liquichek Tumor Marker Control claims substantial equivalence to the Liquichek Tumor Marker Control currently in commercial distribution (K071675). Table 1 (below) contains comparison information of similarities and differences between the new and predicate device to which substantial equivalence is claimed.

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Table 1: Similarities and Differences between new and predicate device

Characteristics	Liquichek Tumor Marker Control (New Device)	Liquichek Tumor Marker Control (Predicate Device, K071675)
	Similarities	h <u>ear an </u>
Intended Use	This product is intended for use as an assayed quality control serum to monitor the precision of laboratory testing procedures for the analytes listed in the package insert.	This product is intended for use as an assayed quality control serum to monitor the precision of laboratory testing procedures listed in the package insert.
Form	Liquid	Liquid
Matrix	Human source material and constituents of animal origin	Human source material and constituents of animal origin
· · · · · ·	Differences	
Test System	Siemens Dimension Vista Systems	Multiple Analyzers
Vial Type	Siemens Dimension Vista Vials	General control vials
Thawed and Unopened (On-Board Stability)	15 days at 2 - 8 °C	60 days at 2 - 8 °C except for: IGF-1, PAP: 35 days Free PSA: 30 days CA 125: 14 days
Thawed & Opened	10 days at 2 - 8 °C	30 days at 2 - 8 °C except for: IGF-1: 15 days CA 125: 12 days
Storage Unopened (Shelf life)	At -20 to -50 °C until the expiration date	At -20 to -70 °C until the expiration date
Analytes	Contains: Alpha Fetoprotein (AFP) Beta-2-Microglobulin (B2-M) CA 15-3 CA 19-9 CA 125 Carcinoembryonic Antigen (CEA) Ferritin Human Chorionic Gonadotropin (hCG) Prolactin Prostate Specific Antigen, Total (Total PSA) Prostate Specific Antigen, Free (Free PSA) Dees not contain: CA 27.29 Prostatic Acid Phosphatase (PAP) Insulin-like Growth Factor-I (IGF-1) Thyroglobulin (Tg)	Contains: Alpha Fetoprotein (AFP) Beta-2-Microglobulin (B2-M) CA 15-3 CA 19-9 CA 125 Carcinoembryonic Antigen (CEA) Ferritin Prolactin Prostate Specific Antigen, Total (Total PSA) Prostate Specific Antigen, Free (Free PSA) CA 27.29 Prostatic Acid Phosphatase (PAP) Insulin-like Growth Factor-I (IGF-1) Human Chorionic Gonadotropin (hCG) Thyroglobulin (Tg)

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8.0 Statement of Supporting Data

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Real-time stability studies were conducted to establish the thawed opened and thawed unopened stability claims. Accelerated stability studies were conducted to establish the shelf-life stability claim. Acceptance Criteria were met to support the product claims as follows:

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Thawed and Opened Stability:	10 days at 2 to 8 °C
Thawed and Unopened Stability:	15 days at 2 to 8 °C
Shelf Life Stability:	28 months at -20°C to -50°C

9.0 Conclusion

Based on the performance characteristics indicated above, the Bio-Rad Liquichek Tumor Marker Control is substantially equivalent to the predicate device K071675.

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All supporting data is retained on file at Bio-Rad Laboratories.

DEPARTMENT OF HEALTH & HUMAN SERVICES



Public Health Service

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center – WO66-G609 Silver Spring, MD 20993-0002

June 23, 2014

BIO-RAD LABORATORIES SUZANNE PARSONS REGULATORY AFFAIRS MANAGER 9500 JERONIMO RD. IRVINE CA 92618-2017

Re: K141073

Trade/Device Name: Liquichek Tumor Marker Control Regulation Number: 21 CFR 862.1660 Regulation Name: Quality control material (assayed and unassayed) Regulatory Class: I Product Code: JJY Dated: April 23, 2014 Received: April 25, 2014

Dear Ms. Parsons:

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. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. 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); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2-Ms. Parsons

If you desire specific advice for your device on our labeling regulations (21 CFR Parts 801 and 809), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638 2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). 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 Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industrv/default.htm.

Sincerely yours,

Elizabeth A. Stafford -S

for Maria M Chan, Ph.D.

Director Division of Immunology and Hematology Devices Office of In Vitro Diagnostics and Radiological Health

Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

510(k) Number (if known) k141073

Device Name

Liquichek Tumor Marker Control

Indications for Use (Describe)

Liquichek Tumor Marker Control is intended for use as an assayed quality control serum to monitor the precision of laboratory testing procedures for the analytes listed in this package insert.

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON A SEPARATE PAGE IF NEEDED.

FOR FDA USE ONLY

Concurrence of Center for Devices and Radiological Health (CDRH) (Signature)

Elizabeth A. Stafford -S

This section applies only to requirements of the Paperwork Reduction Act of 1995.

DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.

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Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement below.