K140764

510(k) Summary

Liquichek Immunology Control

APR 2 5 2014

1.0 Submitter

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Date of Summary Preparation

March 25th, 2014

2.0 Device Identification

Product Trade Name:

Liquichek Immunology Control

Common Name:

Multi-Analyte Controls, All Kinds (Assayed)

Classifications:

Class I. Reserved

Product Code:

JJY

Regulation Number:

21 CFR 862,1660

3.0 Device to Which Substantial Equivalence is Claimed

Liquichek Immunology Control Bio-Rad Laboratories

Predicate 510(k) Number: K022991

4.0 **Description of Device**

Liquichek Immunology Control is prepared from defibrinated human plasma with added serum proteins, stabilizers and preservatives. This product is provided in liquid form for convenience.

Each human donor unit 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.

5.0 Value Assignment

The mean values and corresponding ±3SD ranges in the Assignment of Values Data Charts (available separately) were derived from replicate analyses and are specific for this lot of product. Data from Unity™ Interlaboratory Program are included in the determination of some ranges. 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 Immunology 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

Liquichek Immunology Control claims substantial equivalence to Liquichek Immunology Control (K022991). Table 1 (below) contains comparison information of similarities and differences between the new and predicate device to which substantial equivalence is claimed.

Table 1. Similarities and Differences between new and predicate device

	. Ia	ible 2: Comparis	on between the predicate and	new Liquichel	Immunology Co	ntrol
Characteristics		Predica	ate Device	New Device		
	Liquichek Immunology Control (K022991)			Liquichek Immunology Control		
e.	•		Similarit	ies		
Product Name		Liquichek Imn	nunology Control	Liquichek Immunology Control		
Intended Use	assayed q	juality control se	ntrol is intended for use as an erum to monitor the precision edures for the analytes listed	Liquichek Immunology Control is intended for use as an assayed quality control serum to monitor the precision or laboratory testing procedures for the analytes listed in the package insert.		
Base Matrix		Defibrinated	Human Plasma	Defibrinated Human Plasma		
Form		L	quid	Liquid		
Thawed and Opened Stability	30 days at 2 to 8°C			30 days at 2 to 8°C		
apailod oddiney	Except		lobulin: 21 days at 2 to 8°C actor: 5 days at 2 to 8°C	Except		lobulin: 21 days at 2 to 8°C actor: 10 days at 2 to 8°C
Shelf life			until expiration	1 1		until expiration
		<u>.</u>	Difference	es		
Thawed and		All analytos: Of	days at 2 to 8°C	E	All applicacy 45	down at 0 to 900
Unopened Stability			Factor: 25 days at 2 to 8°C	Except		days at 2 to 8°C
onopened stability			r Faciol. 20 days at 2 to 6 G.,			actor: 10 days at 2 to 8°C
Analytes				Contains		
	ADNase B		IgG Subclass 1	ADNase B Hemopexin Albumin IgG Subclass 1 Alpha 1-Antitrypsin IgG Subclass 2		Hemonevin
	Albumin		IgG Subclass 2			
	Alpha 1-Antitrypsin		lgG Subclass 3			<u>=</u>
	Alpha 2-Macroglobulin		lgG Subclass 4	Alpha 2-Macroglobulin IgG Subclass 3		•
	Alpha-1-Acid Glycoprotein		Immunoglobulin A			IgG Subdass 4
	Antistreptolysin-O		Immunoglobulin E	Anti-CCP		Immunoglobulin A
	Antithrombin III (AT III)		Immunoglobulin G	Į.		Immunoglobulin E
	Apolipoprotein A-I		Immunoglobulin M			Immunoglobulin G
	Apolipoprotein B		Kappa Light Chain			Immunoglobulin M
	Beta-2-Microglobutin		Lambda Light Chain	Apolipoprotein B		Kappa Light Chain
	C1 Inhibitor		Lipoprotein (a)	Beta-2-Microglobutin		Lambda Light Chain
	Ceruloplasmin		Prealbumin	C1 Inhibitor		Lipoprotein (a)
	Complement C3		Properdin Factor B	Ceruloplasmin		Prealbumin
	Complement C4		Protein Serum (Total)	Complement C3		Properdin Factor B
	C-Reactive Protein (CRP)		Retinol Binding Protein	Complement C4		Protein Serum (Total)
	C-Reactive	Protein (hsCRP)	Rheumatoid Factor	C-Reactive Protein (CRP)		Retinol Binding Protein
	Cystatin C		Soluble Transferrin Receptor			Rheumatoid Factor
	Ferritin		Total Hemolytic Complement	•		Soluble Transferrin Receptor
	Haptoglobin	ı	Transferrin	Ferritin Total Hemolytic Complem		Total Hemolytic Complement
	Hemopexin			Haptoglobin Transferrin		Transferrin
	Does not c	ontain:				
•	Anti-CCP					

8.0 Statement of Supporting Data

Real time stability studies were performed to establish Thawed and Opened and Thawed and unopened stability claims. Accelerated stability studies were performed for establishing the shelf life stability. The stabilities for Liquichek Immunology Control are as follows

Thawed and Opened Stability Beta-2-Microglobulin: 21 days at 2 to 8°C

Rheumatoid Factor: 10 days at 2 to 8°C All other analytes: 30 days at 2 to 8°C

Thawed and Unopened Stability Beta-2-Microglobulin: 40 days at 2 to 8°C

Rheumatoid Factor: 10 days at 2 to 8°C All other analytes: 45 days at 2 to 8°C

Shelf Life stability: 24 months at -20 to -70°C

9.0 Conclusion

Based on the performance characteristics indicated above, Liquichek Immunology Control is substantially equivalent to the predicate device (K022991).

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



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

April 25, 2014

BIO-RAD LABORATORIES SUZANNE S. PARSONS REGULATORY AFFAIRS MANAGER 9500 JERONIMO ROAD IRVINE CA 92618

Re: K140764

Trade/Device Name: Liquicheck Immunology Control

Regulation Number: 21 CFR 862.1660

Regulation Name: Quality control material (assayed and unassayed)

Regulatory Class: I, Reserved

Product Code: JJY Dated: March 25, 2014 Received: March 27, 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.

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" (21CFR 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/Industry/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

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

ONTINUE ON A SEPARATE PAGE IF NEEDED.
Over-The-Counter Use (21 CFR 801 Subpart C)
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kage insert.
yed quality control serum to monitor the precision of
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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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