





EC Certificate

Full Quality Assurance System Directive 98/79/EC on In Vitro Diagnostic Medical Devices (IVDD), Annex IV excluding (4, 6) (List A and B and devices for self-testing)

No. V1 104507 0003 Rev. 06

Manufacturer: ACON Laboratories, Inc.

> 5850 Oberlin Drive, #340 San Diego CA 92121

USA

Product Category(ies): Blood glucose measuring systems for self testing

and self-testing devices for clinical chemistry, hematology and pregnancy and ovulation

The Certification Body of TÜV SÜD Product Service GmbH declares that the aforementioned manufacturer has implemented a quality assurance system for design, manufacture and final inspection of the respective devices / device families in accordance with IVDD Annex IV. This quality assurance system conforms to the requirements of this Directive and is subject to periodical surveillance. For marketing of List A devices an additional Annex IV (4) certificate is mandatory. All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:V1 104507 0003 Rev. 06

SH22743EXT01 Report no.:

Valid from: 2022-05-04 Valid until: 2025-05-26

2022-05-04 Date,

> Christoph Dicks Head of Certification/Notified Body



Product Service

EC Certificate

Full Quality Assurance System
Directive 98/79/EC on In Vitro Diagnostic Medical Devices (IVDD), Annex IV excluding (4, 6)
(List A and B and devices for self-testing)

No. V1 104507 0003 Rev. 06

Model(s): On Call Plus Blood Glucose Monitoring System,

On Call Plus Blood Glucose Test Strips,

On Call EZ II Blood Glucose Monitoring System,

On Call Advanced Blood Glucose Monitoring System,

On Call Advanced Blood Glucose Test Strips,

On Call Chosen Blood Glucose Test Strips,

On Call Vivid Blood Glucose Monitoring System (OGM-101),

On Call Vivid Blood Glucose Test Strips (OGS-101),

On Call Sharp Blood Glucose Monitoring System (OGM-121)

121),

On Call Sharp Blood Glucose Test Strips (OGS-121)

On Call Plus II Blood Glucose Monitoring System (OGM-171)

On Call Plus II Blood Glucose Test Strips (OGS-171),

On Call Extra Blood Glucose Monitoring System (OGM-191),

On Call Extra Blood Glucose Test Strips (OGS-191),

On Call GK Dual Blood Glucose & Ketone Monitoring

System (OGM-161),

On Call Blood Ketone Test Strips (OGS-161),

Urinalysis Reagent Strips (Urine),

UTI Urinary Tract Infection Test Strips.

Cholesterol Monitoring System (CCM-111),

CHOL Total Cholesterol Test Devices (CCS-111).

TRIG Triglycerides Test Devices (CCS-112),

HDL High Density Lipoprotein Test Devices (CCS-113),

3-1 Lipid Panel Test Devices (CCS-114),

Cholesterol CTRL Control Devices,

Cholesterol Monitoring System (CCM-101),

CHOL Total Cholesterol Test Strips (CCS-101).

PT/INR Monitoring System (CCM-151),

PT/INR Test Strips (CCS-151),

Hemoglobin Testing System (CCM-141),

Hemoglobin Test Strips (CCS-141),

hCG Pregnancy Rapid Test Cassette (Urine),

Pregnancy Rapid Test Midstream,

On Call Extra Mobile Blood Glucose Monitoring System

(OGM-281),

On Call Sure Blood Glucose Monitoring System (OGM-211),

On Call Sure Sync Blood Glucose Monitoring System (OGM-212),

On Call Sure Blood Glucose Test Strips (OGS-211),

GIMA Blood Glucose Monitoring System,

GIMA Bluetooth Blood Glucose Monitoring System,

GIMA Blood Glucose Test Strips,

On Call GU Dual Blood Glucose & Uric Acid Monitoring





EC Certificate

Full Quality Assurance System Directive 98/79/EC on In Vitro Diagnostic Medical Devices (IVDD), Annex IV excluding (4, 6) (List A and B and devices for self-testing)

No. V1 104507 0003 Rev. 06

System (OGM-201),

On Call Blood Uric Acid Test Strips (OGS-201),

LH Ovulation Rapid Test Cassette (Urine).

Ovulation Rapid Test Midstream,

Ovulation & Pregnancy Test Combo Pack,

On Call Extra Voice Blood Glucose Monitoring System (OGM-291),

Early Detection Pregnancy Test,

Digital Pregnancy Test.

Go-Keto Blood Glucose & Ketone Monitoring System (OGM-

Go-Keto Blood Ketone Test Strips (OGS-161),

Go-Keto Blood Glucose Test Strips,

On Call Extra GM Blood Glucose Monitoring System(OGM-

On Call Extra GM Blood Glucose Test Strips (OGS-191),

On Call Plus GM Blood Glucose Monitoring System,

On Call Plus GM Blood Glucose Test Strips,

Go-Keto Urinalysis Reagent Strips

ACON Laboratories, Inc. Facility(ies):

5850 Oberlin Drive, #340, San Diego CA 92121, USA

ACON Laboratories, Inc.

10125 Mesa Rim Road, San Diego CA 92121, USA

AZURE Institute, Inc.

10125 Mesa Rim Road, San Diego CA 92121, USA

Acon Laboratories Inc.

Guerrero Negro 9942 Parque Industrial Pacifico IV, 22644 Tijuana

B.C. CP, MEXICO

TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123

Declaration of Conformity

ACON Laboratories, Incorporated 5850 Oberlin Drive #340 San Diego, CA 92121, USA

We, the manufacturer, declare under our sole responsibility that the *in vitro* diagnostic device:

Mission® Urinalysis Reagent Strips (U031-XX1)

classified as Others in the directive 98/79/EC,

meets all the provisions of the directive 98/79/EC on in vitro diagnostic medical devices which apply to it

The self-declaration is according to Annex III (excluding Section 6) of the Directive.

Authorized Representative: Medical Device Safety Service GmbH Schiffgraben 41 30175 Hannover, Germany

Signed this 11 day of February, 2020 in San Diego, CA USA

Qiyi Xie, MD, MPH
Senior Staff, Regulatory Affairs & Clinical Affairs
Acon Laboratories, Inc.







Product Service

Certificate

No. Q5 104507 0001 Rev. 03

Holder of Certificate: ACON Laboratories, Inc.

5850 Oberlin Drive, #340 San Diego CA 92121 **USA**

Certification Mark:



Design and Development, Manufacture and distribution Scope of Certificate: of In Vitro Diagnostic Test Kits and Reagents for the

Determination of Infectious Diseases, Clinical Chemistry, Drugs of Abuse, Tumor/Cardiac Marker, Fertility/Pregnancy and Blood Glucose Monitoring

System, Lancing Devices and Lancets

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:Q5 104507 0001 Rev. 03

SH22743A01 Report No.:

Valid from: 2022-09-15 Valid until: 2025-09-06

Christoph Dicks Date, 2022-09-15

Head of Certification/Notified Body





Certificate

No. Q5 104507 0001 Rev. 03

Applied Standard(s): EN ISO 13485:2016

Medical devices - Quality management systems -

Requirements for regulatory purposes

(ISO 13485:2016) DIN EN ISO 13485:2016

Facility(ies): ACON Laboratories, Inc.

5850 Oberlin Drive, #340, San Diego CA 92121, USA

Address holder for registration only

ACON Laboratories, Inc.

10125 Mesa Rim Road, San Diego CA 92121, USA

Manufacture and distribution of

In Vitro Diagnostic Test Kits and Reagents for the Determination of Infectious Diseases, Clinical Chemistry, Drugs of Abuse, Tumor/Cardiac Marker, Fertility/Pregnancy and Blood Glucose

Monitoring System, Lancing Devices and Lancets

ACON Laboratories, Inc.

6865 Flanders Dr., Suite B, San Diego CA 92121, USA

Storage of

In Vitro Diagnostic Test Kits and Reagents for the Determination of Infectious Diseases, Clinical Chemistry, Drugs of Abuse, Tumor/Cardiac Marker, Fertility/Pregnancy and Blood Glucose Monitoring System, Lancing Devices and Lancets

AZURE Institute, Inc.

10125 Mesa Rim Road, San Diego CA 92121, USA

Design and Development of

In Vitro Diagnostic Test Kits and Reagents for the Determination of Infectious Diseases, Clinical Chemistry, Drugs of Abuse, Tumor/Cardiac Marker, Fertility/Pregnancy and Blood Glucose Monitoring System, Lancing Devices and Lancets

Acon Laboratories Inc.

Guerrero Negro 9942 Parque Industrial Pacifico IV, 22644 Tijuana B.C. CP, MEXICO

Manufacture of

blood glucose test strips, antigen rapid test and IgG/IgM antibody rapid test for infectious disease.

Mission® Urinalysis Reagent Strips and Urine Analyzers



Urinalysis Reagent Strips

Simple and Accurate

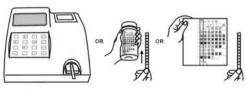
- Analytical sensitivity better than or comparable to market leaders
- · High quality color chart ensures accurate visual reading

- · Compatible for visual and analyzer reading
- · More than 30 different combinations available

Multiple Packaging Options and Long Shelf Life

- Canister Packaging
 Available in 25, 50, 100 and 150 strips per kit
 - · 2 year shelf life for unopened canisters which offers cost savings and convenience for high volume testing
- 3 month shelf life for strips in opened canisters Pouch Packaging New!
- · Single-strip Pouch
 - Individually packaged strips with 1, 3, 6 and 20 strips and 1 color chart per kit for OTC or low volume testing
- . Unique packaging maintains 2 year shelf life for all strips in the kit compared to 3 months for remaining strips in an opened canister
- Multi-strip Pouch
- · Canister Refill Kits with 25 strips/pouch uniquely packaged to save cost for low volume testing and extended shelf life by using the canister for refills





| Ste | ep 1: Immers | e strip into | o urine | | Step 2: Remove excess urine | | | ne S | Step 3: Obtain results by analyzer or visual reading | | | | | | | | | | | | | |
|----------------|----------------------|-----------------------|--|------------------------|-----------------------------|--|---------------------------|----------|--|------------|-----|-----|-----|----|-----|----|-----|-----|-----|-----|----------|----------------|
| Catalan | No. of | Туре | of Strip * | Of the second | Downley | Read | ding Method Analyzer-Read | | | Parameters | | | | | | | | | | | | |
| Catalog No. | No. of Parameters | For Visual Reading | For Analyzer Reading (U120/U500) | Strips per Canister | Pouch Packaging* | Visual | U120 | U500 | Strips: Standard (S) or Additional (A) | ASC | GLU | BIL | KET | sg | BLO | рН | PRO | URO | NIT | LEU | ALB | CRE |
| U031-131 | 13 | 13C | NA | 100" | ✓ | 1 | NA | NA | Α | * | * | * | * | * | * | * | * | * | * | * | * | * |
| U031-111 | 11 | | 11A | 100 | 4 | 1 | 1 | 1 | S | * | * | * | * | * | * | * | * | * | * | * | | |
| | | 12 | 10U | 100 | | 4 | ~ | 1 | S | | * | * | * | * | * | * | * | * | * | * | | |
| U031-101 | 10 | | 10A | | ¥ | 1 | 1 | ~ | Α | * | * | * | * | * | * | * | * | * | * | | | |
| | | | 10C | 100" | | 1 | ~ | 1 | S | | * | | * | * | * | * | * | | * | * | * | * |
| U031-091 | 9 | | 9U | 100 | ✓ | ~ | 1 | 1 | S | | * | * | * | * | * | * | * | * | * | | | |
| | | | 8U | | | 1 | 1 | 1 | Α | | * | * | * | | * | * | * | * | * | | | |
| U031-081 | 8 | | 8N | 100 | ¥ | NY Comments and the second sec | | | * | | * | * | * | * | * | | * | * | | | | |
| 11001 071 | | | 8S | 100 | | | / / / A | | * | | | * | * | * | * | * | * | * | | | | |
| U031-071 | 7 | | 7N | 100 | ✓ | 1 | 1 | 1 | A | | * | | * | | * | * | * | | * | * | | |
| U031-061 | 6 | 6N | 6NE 6UE | 100 | ✓ | 4 | V | 4 | A | | * | * | | | * | * | * | 100 | * | * | | \blacksquare |
| | | 6U 5B | 5BE | _ | | 4 | V | 4 | | | * | * | * | * | * | * | * | * | * | | | |
| | | 5N | 5NE | - | | 4 | 1 | 1 | 1 | - | * | | * | | * | * | * | | * | * | | Н |
| U031-051 | 5 | 5N 5S | 5SE | 100 | ~ | 7 | · | · · | ^ | | * | _ | _ | * | * | * | * | - | | * | | \vdash |
| | | 5U | 5UE | 1 | | 1 | 7 | | | _ | • | * | _ | Ĥ | * | - | | * | * | * | \vdash | \vdash |
| | | 48 | 4SE | | | 1 | 1 | 1 | | | * | _ | | * | _ | * | * | - | | | | |
| | | 4B | 4BE | | 1 | 1 | ~ | | | | * | | | | * | * | * | | | | | |
| 01022201200 | 9 | 4K | 4KE | 10022 | 12 | 1 | 1 | 1 | | | * | | * | | | * | * | | | | | |
| U031-041 | 4 | 4G | 4GE | 100 | × | 1 | 1 | | Α | | * | | | | * | | * | | | * | | |
| | | 4N | 4NE | | 2 | 1 | 1 | 1 | 3 | | | | | | * | | * | | * | * | | |
| | | 4P | 4PE | | | 1 | 1 | 1 | | | * | | | | | | * | | * | * | | |
| | | 3P | 3PE | | | 1 | V | 1 | | | * | | | | | * | * | | | | | |
| U031-031 | 3 | 3K | 3KE | 100 | √ | 1 | V | 1 | A | | * | | * | | | | * | | | | | |
| 0031-031 | | 3G | 3GE |] 100 | * | 1 | 1 | ~ | ^ | | * | | * | | | * | | | | | | |
| | | 3N | 3NE | | | 4 | ~ | V | | | | | | | * | | | | * | * | | |
| | | 2G | 2GE | | | 1 | 1 | 1 | | | * | | | | | | * | | | | | |
| | | 2K | 2KE | | | 1 | ✓ | 1 | | | * | | * | | | | | | | | | |
| 12022017220 | 020 | 2N | 2NE | 1722 | N | 1 | V | 1 | | | | | | | * | | | | | * | | |
| U031-021 | 2 | 2B | 2BE | 100 | * | 1 | V | 1 | A | | * | | * | | | | | | | | | |
| | | 2U | 2UE | | | 4 | 1 | 1 | | | | | | | | | | | * | * | | |
| | | 28 | 2SE | 400 | | 1 | V | 1 | | | | | | * | | * | | | | | | |
| | | 2C | 2CE | 100* | | 4 | V | 4 | | | | | | | | - | | | | | * | * |
| | | 1B | 1BE | | | 4 | Y | | | | | | | | * | | | | | | | \vdash |
| 11034 044 | | 1P | 1PE | 100 | , | 1 | V | ¥ | , | | | | - | - | - | * | _ | - | | | | \vdash |
| U031-011 | 1 | 1G | 1GE | 100 | * | 1 | V | ✓ | Α | | * | | | - | | - | _ | | | | | \vdash |
| | | 1K | 1KE | - | | 4 | Y | V | | | | | * | _ | _ | _ | | _ | _ | _ | | \vdash |
| | | 1R | 1RE | | | ✓ | ✓ | V | ✓ | | | Ц. | | _ | | | * | | | | | ш |



12-13 Parameters: 5 mm x 121 mm U120/U500 Strip Size

1-11 Parameters: 5 mm x 108 mm; "E" means extended strip length for 1-6 Parameters

- Visual Strip Size 1-6 Parameters: 5 mm x 80 mm; 7-11 Parameters: 5 mm x 108 mm;
 - Not available in canisters of 150 strips
 - ▲ Single-strip Pouch available in 1,3, 6 and 20 strip kit
 Canister Refill Kit, with 25 strips per pouch or canister, available in 3-pouch and 1- canister kit, or 4-pouch kit



Also available in canisters of 25, 50 and 150 strips

U120 Urine Analyzer



- Accurate

 Up to 120 tests/hour in Continuous Test Option
- · Capable of reading 1 strip at a time in Single Test Option
- · Test modes include Routine, STAT and QC
- · Automatic calibration for accurate results and easy operation

- Can read up to 4 Strip combinations with 8, 9, 10, 11 parameters, additional strips with 1-11 parameters available upon request

- Convenient Operation
 Saves and recalls the last 2,000 results automatically
- · Audible beep signals operator to dip strips in urine
- · Can print up to 3 copies per test for convenient reviewing and easy record keeping
- · Option to print results on sticker paper for quick and simple record management

Easy Data Management

- Includes RS232C port for easy data transfer to an external computer or LIS
 Optional Barcode Reader to record patient ID

Unique Lockout Functions new!

- Strip Lockout
 - Prevents using strips of another brand on the U120 Urine Analyzer
 - · Requires barcode reader scan or manual entry of the canister code
- User Lockout

 - Eliminates unapproved users from testing
 Up to 10 lab operators can perform testing, but only the lab administrator can change analyzer settings
- QC Lockout
 - · Prevents testing without passing QC
 - Prevents testing without passing 4C
 QC tests can be performed once every 8 hours, day, week or month
 Analyzer will alert when to run QC test

 - . If QC tests fail, analyzer will switch to STAT mode and list "E" at the end of each test number

Specifications

| Feature | Specif | ications | | |
|-----------------------------------|---|--|--|--|
| Analyzer Type | Manual | | | |
| Methodology | Reflectance Photometry | | | |
| Detection | Photosensitive Diode | | | |
| Throughput | Single Test Option: 60 tests/hour Continuous Test Option: 120 tests/hour | | | |
| Test Modes | Routine, STAT and QC | | | |
| Lockout Functions | Strip Lockout: Available Upon Request; Us | er/QC Lockout: Included with option to turn ON/OF | | |
| Memory | Last 2,000 results | - | | |
| Strip Incubation Time | 1 Minute | | | |
| Wavelength of Monochromatic LED | 525 nm and 635 nm | | | |
| Standard Strips | 8, 9, 10, 11 Parameters (5 mm x 108 mr | n) | | |
| Additional Strips Available | 1-11 Parameters (5 mm x 108 mm); see URS Parameters | | | |
| Total Combinations Per Analyzer | 4 Combinations | | | |
| Analyzer Ports | Standard RS232C Port for Barcode Re- USB Port for Data Transfer 25 Pin Parallel Port for External Printer | | | |
| Capabilities | Internal Thermal Printer (included) Optional External Printer (not included) | RS232C Barcode Reader (optional) USB or RS232C Data Transfer Cable (optional) | | |
| Major Readable Barcodes | Code 128, Code 39, Codabar (NW-7), Inte EAN 8, EAN 13 | rleaved 25, UPC-A, UPC-E, | | |
| Calibration | Automatic | | | |
| Available Languages on the Screen | English and additional language(s) | | | |
| Operating Conditions | 0-40°C (32-104°F); ≤ 85% RH | | | |
| Storage Conditions | -5-50°C (23-122°F); ≤90% RH | | | |
| Power Source | 100-240 VAC, 50-60 Hz | | | |
| Dimensions (L x W x H) | 27.2 cm x 26.9 cm x 14.6 cm (10.7" x 10 | .6" x 5.7") | | |
| Display Dimensions (L x W) | 10.8 cm x 5.7 cm (4.2" x 2.2") | | | |
| Weight | 2.6 kg (5.7 lbs) | | | |

Ordering Information

| Product Name | Catalog No. | Co | mponents | | Kit Box Dimensions (L x W x H) & Weight | Carton Dimensions (L x W x H) & Weight | Number of Kits/Carton | |
|------------------------|---|--|------------|---|---|---|--------------------------|--|
| U120 Urine Analyzer | U111-101√ [†] | 1 Urine Analyzer 1 Strip holder | | 2 Fuses (2.0A) 1 Power Cord | 42.0 cm x 41.5 cm x 3 | 1 cm; 5.0 kg | 4 | |
| 0 120 Offine Arranyzer | U111-101*1 | 2 Printer Paper Roll | s | 1 Quick Start Guide 1 Instruction Manual | 16.4" x 16.2" x 12.1"; 176.4 oz | | | |
| U120 Urine Analyzer | 1 Urine Analyzer ne Analyzer U111-111à 1 Strip holder | | | 2 Fuses (2.0A) 1 Power Cord | 44.5cm x 44.5cm x 4 | 0.0cm; 5.5 kg | 22 | |
| with Barcode Reader | Omin | 2 Printer Paper Roll 1 Barcode Reader (| | 1 Serial Splitter Cable (RS232C) 1 Quick Start Guide 1 Instruction Manual | 17.5" x 17.5" x 15. | 17.5" x 17.5" x 15.7"; 194 oz | | |
| Barcode Reader | U221-111√ [†] | 1 Barcode Reader (I | RS232C) | 1 Serial Splitter Cable (RS232C) | 23.6 cm x 10.8 cm x 7.8 cm; 0.482 kg 9.3" x 4.3" x 3.1"; 17.0 oz | 63.0 cm x 37.0 cm x 30.0 cm; 12.0 kg 24.8" x 14.6" x 11.8"; 423.3 oz | 22 | |
| Printer Paper Rolls | 11101 101 | 4 Printer Paper Rolls | Thermal F | Paper (0.06 m x 20 m); 200 results/roll | 12.0 cm x 12.0 cm x 6.5 cm; 0.36kg 63.0 cm x 37.0 cm x 30.0 cm; 19. 4.7" x 4.7" x 2.6": 12.70z 24.8" x 14.6" x 11.8"; 684.3 oz | | 50 | |
| r linter raper itolis | U121-101 | 4 Filiter Paper Rolls | Sticker Pa | aper (0.06 m x 9 m): 100 results/roll | 12.0 cm x 12.0 cm x 6.5 cm; 0.4 kg 4.7" x 4.7" x 2.6"; 14.1 oz | 63.0 cm x 37.0 cm x 30.0 cm; 21.4 kg 24.8" x 14.6" x 11.8"; 684.3 oz; 754.9 oz | | |
| U120 Data Transfer Kit | U221-131 ^à | 1 Data Transfer Cable | (RS232C) | 1 Package Insert | 16.0 cm x 13.0 cm x 3.5 cm; 0.147 kg 6.3" x 5.1" x 1.4"; 5.2 oz | 25.0 cm x 21.0 cm x 15.0 cm; 1.36 kg 9.8" x 8.3" x 5.9"; 48.0 oz | 8 | |

U500 Urine Analyzer



Accurate and Efficient

• Up to 500 tests/hour for medium/large volume sample testing
• Professional accuracy equivalent to market leader
• Automatic strip detection and alignment for better efficiency
• Test modes include Routine, STAT and QC

Easy to Operate

Large touch screen LCD offers simple menu navigation

Uniquely designed strip platform/waste tray unit for easy one-step cleaning

CONVENIENT

Automatic calibration and waste disposal reduce hands-on time

Can read strips with 8, 9, 10, 11 parameters, additional strips with 1-11 parameters available upon request

Strip selection of up to 4 combinations for analyzer reading

Stories up to 2,000 records and automatically flags abnormal results

Capable of printing results on sticker paper for quick and easy record management

Data Management Capability
Includes R\$232C port for easy data transfer to an external computer or LIS
Optional Barcode Reader to record patient ID
Unique Lockout Functions Coming Soon!

Strip Lockout
 Prevents using strips of another brand on the U500 Urine Analyzer
 Requires barcode reader scan or manual entry of the canister code

User Lockout

Eliminates unapproved users from testing
 Up to 10 lab operators can perform testing, but only the lab administrator can change analyzer settings.

QC Lockout
 Prevents testing without passing QC

QC tests can be performed once every 8 hours, day, week or month
 Analyzer will alert when to run QC test

If QC tests fail, analyzer will switch to STAT mode and list "E" at the end of each test number

Specifications

| Feature | Specificatio | ns | | | |
|-----------------------------------|--|---|--|--|--|
| Analyzer Type | Semi-Automatic | | | | |
| Methodology | Reflectance Photometry | | | | |
| Detection | Photosensitive Diode | | | | |
| Throughput | 500 tests/hour (Measuring cycle: 7 secon | ds/test) | | | |
| Test Modes | Routine, STAT and QC | Herricocourts is | | | |
| Lockout Functions | Strip Lockout: Available Upon Request; User | /QC Lockout: Included with option to turn ON/OFF | | | |
| Memory | Last 2,000 Records | ** | | | |
| Strip Incubation Time | 1 Minute | | | | |
| Wavelength | 525 and 635 nm | | | | |
| Standard Strips | 8, 9, 10, 11 Parameters (5 mm x 108 mm) | 2 | | | |
| Additional Strips Available | 1-11 Parameters (5 mm x 108 mm); see URS | Parameters | | | |
| Total Combinations Per Analyzer | 4 Combinations | | | | |
| Waste Disposal Capacity | Up to 150 Strips | | | | |
| Analyzer Ports | Standard RS232C Port for Barcode Read 25 Pin Parallel Port for External Printer | er or Data Transfer | | | |
| Capabilities | Internal Thermal Printer (included) Optional External Printer (not included) | RS232C Barcode Reader (optional) RS232C Data Transfer Cable (optional) | | | |
| Major Readable Barcodes | Code 128, Code 39, Codabar (NW-7), Interle | aved 25, UPC-A, UPC-E, EAN 8, EAN 13 | | | |
| Calibration | Automatic | | | | |
| Available Languages on the Screen | English and additional language(s) | | | | |
| Operating Conditions | 0-40°C (32-104°F); ≤85% RH | | | | |
| Storage Conditions | -5-50°C (23-122°F); ≤90% RH | | | | |
| Power Source | 100-240 VAC, 50-60 Hz | | | | |
| Dimensions (L x W x H) | 36.6 cm x 28.3 cm x 19.5cm (14.4" x 11.1" | ' x 7.7") | | | |
| Display Dimensions (LxW) | 11.5 cm x 9.0 cm (4.5" x 3.5") | We . | | | |
| Weight | 4.0 kg (8.8 lbs) | | | | |

Ordering Information

| Product Name | Catalog No. | Co | mponents | | Kit Box Dimensions (L x W x H) & Weight | Carton Dimensions (L x W x H) & Weight | Number of Kits/Carton | | |
|--|-------------|---|--|---|--|---|--------------------------|----------------|---|
| Selfordandens, Fredom Andrito Control of Antonio | 112 | 1 Urine Analyzer 1 Strip Platform/Waste | a Tray | 2 Fuses (2.0A) 1 Power Cord | 51.0 cm x 42.0 cm x 3 | 8.5 cm; 7 kg | | | |
| U500 Urine Analyzer | U211-101√ | 2 Printer Paper Rolls | | 1 Instruction Manual | 20.1" X 16.5" x 15. | 2"; 246.9 oz | 1 | | |
| U500 Urine Analyzer | U211-111√ | 1 Urine Analyzer 1 Strip Platform/Waste Tray | | 4 Chain Diations Alfreda T | | 2 Fuses (2.0A) 1 Power Cord | 55.0 cm x 55.0 cm x | 55.0cm; 9.2 kg | 1 |
| with Barcode Reader | 02111111 | 2 Printer Paper Roll: 1 Barcode Reader (F | | Serial Splitter Cable (RS232C) Instruction Manual | 21.7" x 21.7" x 21.7"; 324.5 oz | | | | |
| Barcode Reader | U221-111à | 1 Barcode Reader (I | RS232C) | 1 Serial Splitter Cable (RS232C) | 23.6 cm x10.8 cm x 7.8 cm; 0. 482 kg 9.3" x 4.3" x 3.1"; 17.0 oz | 63.0 cm x 37.0 cm x 30.0 cm; 12 kg 24.8" x 14.6" x 11.8"; 423.3 oz | 22 | | |
| Printer Paper Rolls | Tues tes | 4 Printer Paper Rolls | Thermal P | aper (0.06 m x 20 m): 200 results/roll | 12.0 cm x 12.0 cm x 6.5 cm; 0.360 kg 63.0 cm x 37.0 cm x 30.0 cm; 19 4.7" x 4.7" x 2.6"; 12.7 oz 24.8" x 14.6" x 11.8"; 684.3 o | | 50 | | |
| Filiter Faper Itolis | U121-101 | 4 Filitter Faper Rolls | Sticker Paper (0.06 m x 9 m): 100 results/roll | | 12.0 cm x 12.0 cm x 6.5 cm; 0.40 kg 4.7" x 4.7" x 2.6"; 14.1oz | 63.0 cm x 37.0 cm x 30.0 cm; 21.4 kg 24.8" x 14.6" x 11.8"; 684.3 oz; 754.9 oz | The same | | |
| U500 Data Transfer Kit | U221-131√ | 1 Data Transfer Cable | (RS232C) | 1 Package Insert | 16.0 cm x 13.0 cm x 3.5 cm; 0.147kg 6.3" x 5.1" x 1.4"; 5.2 oz | 25.0 cm x 21.0 cm x 15.0 cm; 1.36 kg 9.8" x 8.3" x 5.9"; 48.0 oz | 8 | | |

We also offer other rapid diagnostic and medical products:

Blood Glucose Monitoring Systems, Immunoassay EIA/ELISA and more.

✓ CE Marked for sale in the European Community † Cleared for US 510(k)



ACON Laboratories, Inc., 10125 Mesa Rim Road, San Diego, CA 92121, U.S.A. • Tel: 1-858-875-8000 • Fax: 1-858-200-0729 • E-mail: info@aconlabs.com Please visit our website for details: www.aconlabs.com



Declaration Ref No: DC21-0035

CE Declaration of Conformity

According to Annex III of the IVD Directive 98/79/EC

We,

Atlas Medical

Head office: Ludwig-Erhard-Ring 3
Blankenfelde-Mahlow, Germany.
Tel: +49 - 33708 – 3550 30
Email: info@atlas-medical.com

Middle East Site: Sahab Free Zone Area, P. O. Box 212555, Amman, Jordan.

Tel.: +962 6 4026468

Fax: +962 6 4022588

Email: info@atlas-medical.com

Declare our responsibility that the following product:

See Attached list

- Comply with all essential requirements (AnnexI) of the IVD Directive 98/79/EC. This
 compliance has been properly documented and covers the items listed in Annex I of the
 IVD Directive.
- This product is produced under Atlas quality system (ISO13485:2016) issued by GMED:

Certificate N⁰.: 36655 rev 1 Expiry Date: October 8 th.2023

Comply with the essential requirements of following standards (EN 18113-1, -2,-4:2011, EN ISO 15223:2016, EN ISO 23640:2015, EN ISO 14971:2019, ISO 2859/1:1999, EN ISO 13612:2002, EN ISO 13641:2002.

And Intended for In-Vitro Professional use only.

Manufacturer
Atlas Medical
Ludwig-Erhard-Ring 3
Blankenfelde-Mahlow, Germany.

| Blankenfe | elde-Mahlow , G | Germany. | Atlas Medical Atlas Medical | |
|-----------|-----------------|----------------|---|-------------|
| Atlas | Issue date | Date of review | Quality Diagnostic Management approval | MRXDO10F.10 |
| Medical | March.2021 | 09.03.2021 | | 08.02.2011 |



CE Declaration of Conformity

According to Annex III of the IVD Directive 98/79/EC

| Product Description |
|--|
| 8.00.02.0.0100: ASO Latex Kit, 100 Tests (4ml Latex, 2x1.0ml controls). |
| 8.00.00.0.0100: CRP Latex Kit, 100 Tests (4 ml Latex, 2x1.0 ml Controls) |
| 8.00.04.0.0100: RF Latex Kit, 100 Tests (4ml Latex, 2x1.0ml controls) |
| 8.00.17.0.0100: D-Dimer Latex Kit, 100 Tests |
| 8.00.13.0.0300: Streptococcus Latex Kit, 6 Groups, 6x50 Tests (5x1.5ml Latex |
| (A,B,C,G,F), 1x3ml Latex(D), 1x1.0ml Positive Control, 1x2ml Extraction Reagent E, |
| 1x1.5ml Extraction Reagent 1, 1x1.5ml Extraction Reagent 2, 2x2.5ml Extraction Reagent |
| 3. Stirring Sticks, Glass Slide). |

8.00.18.3.0500 : RPR Syphilis (Coarse Grain) Kit, 500 Tests (10 ml latex, 2x1ml control) Without card, stirring sticks.

8.00.18.3.1000 RPR Carbon Antigen (Coarse Grain) Kit, 1000 Tests (Reagent only).





CERTIFICATCERTIFICATE OF REGISTRATION

N° 36655 rev.1

GMED certifie que le système de management de la qualité développé par

GMED certifies that the quality management system developed by

ATLAS MEDICAL GmbH Ludwig-Erhard-Ring 3 15827 Blankenfelde-Mahlow GERMANY

pour les activités

for the activities

Conception et développement, fabrication et vente de dispositifs médicaux de diagnostic in vitro .

Design and Development, Manufacturing and Sales of in vitro diagnostic medical devices.

réalisées sur le(s) site(s) de performed on the location(s) of

Voir addendum

See addendum

est conforme aux exigences des normes internationales complies with the requirements of the international standards

ISO 13485: 2016

Début de validité / Effective date October 9th, 2020 (included) Valable jusqu'au / Expiry date : October 8th, 2023 (included)

Etabli le / Issued on : October 8th, 2020

On be

On behalf of the President Béatrice LYS

Technical Director

DocuSigned by:

GMED N° 36655-1

Ce certificat est délivré selon les règles de certification GMED / This certificate is issued according to the rules of GMED certification

Renouvelle le certificat 36655-0

RECEITIFICATION DE SYSTEMES DE MANAGEMENT
A Loste des sites accrédit et et portée disponible su www.cofrac.fr

GMED •

GMED • Société par Actions Simplifiée au capital de 300 000 € • Organisme Notifié/Notified Body n° 0459 Siège social : 1, rue Gaston Boissier - 75015 Paris • Tél. : 01 40 43 37 00 • gmed.fr



Addendum au certificat n° 36655 rev. 1 page 1/1 Addendum of the certificate n° 36655 rev. 1 Dossier / File N°P601408

Ce certificat couvre les activités et les sites suivants :

This certificate covers the following activities and sites:

French version:

Conception et développement, fabrication et vente de dispositifs médicaux de diagnostic *in vitro* à usage professionnel et/ ou d'autodiagnostic, dans les domaines du groupage sanguin, de la microbiologie, de la biochimie, de la toxicologie, de l'oncologie, de la cardiologie, de l'histologie, de l'endocrinologie et des maladies infectieuses, dans les techniques d'Agglutination/ ELISA/ Tests rapides/ Colorimétrie/ Disques antibiotiques.

English version:

Design and Development, Manufacturing and Sales of in vitro diagnostic medical devices for professional use and/or for self-testing, in the field of Immunohematology, Microbiology, Biochemistry, Toxicology, Oncology, Cardiology, Histology, Endocrinology Biosensors and Infectious diseases, in techniques of Agglutination/ELISA/Rapid tests/Colorimetry/Antibiotic disks.

ATLAS MEDICAL GmbH Ludwig-Erhard-Ring 3 15827 Blankenfelde-Mahlow GERMANY

French version:

Siège social, responsable de la mise sur le marché

English version:

Headquarter, legal manufacturer

Sahab Industrial Zone Area King Abdullah II Industrial City Amman 11512 JORDAN

French version:

Conception, fabrication et contrôle final

English version:

Design, manufacture and final control

William James House Cowley Road, Cambridge, CB OWX United Kingdom

French version:

Contact réglementaire

English version:

Regulatory Administration

3 sites / 3 sites

Bratrice Lys

EF33BDA9BAA04A3...

On behalf of the President Béatrice LYS Technical Director



ATLAS C-REACTIVE PROTEIN (CRP) LATEX KIT

For the qualitative and semi-quantitative measurement of C-reactive protein (CRP) in human serum.



IVD For in -vitro diagnostic and professional use only



INTENDED USE

Atlas C-Reactive Protein (CRP) is used to measure the CRP in human serum qualitatively and semi- quantitatively.

INTRODUCTION

C-reactive protein (CRP), the classic acute-phase of human serum, is synthesized by hepatocytes. Normally, it is present only in trace amounts in serum, but it can increase as much as 1,000-fold in response to injury or infection. The clinical measurement of CRP in serum therefore appears to be a valuable screening test for organic disease and a sensitive index of disease activity in inflammatory, infective and ischemic conditions. MacLeod and Avery found that antibody produced against purified CRP provided a more sensitive test than the C-polysaccharide assay. Since that time a number of immunological assays have been devised to measure CRP such as capillary precipitation, double immunodiffusion and radical immunodiffusion.

The CRP reagent kit is based on the principle of the latex agglutination assay described by Singer and Plotz. The major advantage of this method is the rapid two (2) minute reaction time.

PRINCIPLE

The CRP reagent kit is based on an immunological reaction between CRP Antisera bound to biologically inert latex particles and CRP in the test specimen. When serum containing greater than 6 mg/L CRP is mixed with the latex reagent, visible agglutination occurs.

MATERIALS

MATERIALS PROVIDED

 CRP Latex Reagent:Latex particles coated with goat IgG anti-human CRP, pH 8.2 MIX WELL BEFORE USE.

- CRP Positive Control Serum: A stabilized pre-diluted human serum containing >20mg/L CRP.
- CRP Negative Control Serum: A stabilized pre-diluted animal serum.
- Glass Slides.
- Stirring Sticks.

MATERIALS REQUIRED BUT NOT PROVIDED

- Mechanical rotator with adjustable speed at 80-100 r.p.m.
- Vortex mixer.
- Pippetes 50 uL.
- Glycine Buffer (20x): add one part to nineteen parts of distilled water before use.

PRECAUTIONS

- Reagents containing sodium azide may be combined with copper and lead plumbing to form highly explosive metal azides. Dispose of reagents by flushing with large amounts of water to prevent azide buildup.
- For In Vitro diagnostic use.
- Positive and negative controls prepared using human serum found negative for hepatitis B surface antigen (HBsAg) by FDA required test; however. handle controls as if potentially infectious.
- Accuracy of the test depends on the drop size of the latex reagent (40µl). Use only the dropper provided with the latex and hold perpendicularly when dispensing.
- Glass slides should be thoroughly rinsed with water and wiped with lint-free tissue after each use.

STORAGE AND STABILITY

Reagents are stable until specified expiry date on bottle label when stored refrigerated (2 - 8°C).

DO NOT FREEZE.

- The CRP latex reagent, once shaken must be uniform without visible clumping. When stored refrigerated, a slight sedimentation may occur and should be considered normal.
- Do not use the latex reagent or controls if they become contaminated.

SPECIMEN COLLECTION AND STORAGE

 Use fresh serum collected by centrifuging clotted blood.

- If the test cannot be carried out on the same day, store the specimen for 7 days at 2-8 °C and for 3 months at -20°C.
- For longer periods the sample must be frozen.
- As in all serological tests, hemolytic or contaminated serum must not be used.
- Do not use plasma.

PROCEDURE

A.QUALITATIVE TEST:

- 1. Allow the reagents and samples to reach room temperature. The sensitivity of the test may be reduced at low temperatures.
- 2. Place 40 µL of the sample and one drop of each Positive and Negative controls into separate circles on the slide test.
- 3. Mix the CRP-latex reagent vigorously or on a vortex mixer before using and add one drop (40 µL) next to the samples to be tested.
- 4. Mix the drops with a stirrer, spreading them over the entire surface of the circle. Use different stirrers for each sample.
- 5. Place the slide on a mechanical rotator at 80-100 r.p.m. for 2 minutes. False positive results could appear if the test is read later than two minutes.

B.SEMI-QUANTITATIVE TEST:

- 1. Make serial two fold dilutions of the sample in 9 g/L saline solution.
- 2. Proceed for each dilution as in the qualitative method.

QUALITY CONTROL

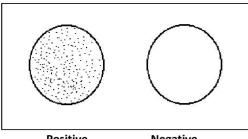
Positive and Negative controls are recommended to monitor the performance of the procedure, as well as a comparative pattern for a better result interpretation.

All result different from the negative control result, will be considered as a positive.

INTERPRETATION OF RESULTS **A.QUALITATIVE TEST:**

A **negative** reaction is indicated by a uniform milky suspension with no agglutination as observed with the CRP Negative Control.

A **positive** reaction is indicated by any observable agglutination in the reaction mixture. The specimen reaction should be compared to the CRP Negative Control (Fig. 1).



Positive

Negative

Figure 1

B. Semi-QUANTITATIVE TEST:

The approximate CRP concentration in the patient sample is calculated as follow:

6×CRP titer = ---- mg/L

INTERFERENCES

NONE INTERFERING SUBSTANCES:

- Hemoglobin (10g/dl)
- Bilirubin(20mg/dl)
- Lipemia(10g/dl)
- Other substances interfere, such as RF (100IU/ml).

NOTE

- High CRP concentration samples may give negative results .Retest the sample again using a drop of 20µl.
- The strength of agglutination is not indicative of the CRP concentration in the samples tested.
- Clinical diagnosis should not be made on findings of a single test result, but should integrate both clinical and laboratory data.

LIMITATIONS

- Reaction time is critical. If reaction time exceeds two (2) minutes, drying of the reaction mixture may cause false positive results.
- Freezing the CRP Latex Reagent will result in spontaneous agglutination.
- Intensity of agglutination is not necessarily indicative of relative CRP concentration; therefore, screening reactions should not be graded.
- 4. A false negative can be attributed to a prozone phenomenon (antigen excess). It is recommended, therefore, to check all negative sera by retesting at a 1:10 dilution with glycine buffer.

REFERENCE VALUES

Up to 6 mg/L. Each laboratory should establish its own reference range.

PERFORMANCE CHARACTERISTICS

- Sensitivity: 6(5-10) mg/L
- **Prozone effect:** No prozone effect was detected up to 1600 mg/L
- Diagnostic sensitivity: 95.6 %.
- Diagnostic specificity: 96.2 %.

REFERENCES

- Pepys, M.B.. Lancet 1:653 (1981).
- 2. Werner, M.. Clin.Chem. Acta 25:299 (1969).
- MacLeod, C.M., et. al.. J. Exp. Med 73:191 (1941).
- Wood, HF., et. al.. J. Clin. Invest. 30: 616 (1951).
- 5. Mancini, G., et. al. Immunochemistry 2:235 (1965).
- Singer, J.M., et. al.. Am. J. Med 21: 888 (1956).
- 7. Fischer, C.L., Gill,. C.W.. In Serum Protein Abnormalities. Boston, Little, Brown and Co., (1975).

ATLAS MEDICAL

William James House, Cowley Road, Cambridge, CB4 OWX, UK Tel: +44 (0) 1223 858 910 Fax: +44 (0) 1223 858 524

PPI005A01

Rev H (06.06.2017)

| REF | Catalogue Number | 1 | Store at | | |
|-----|-------------------------------|-------------|----------------------------------|--|--|
| IVD | For In-Vitro Diagnostic use | \triangle | Caution | | |
| Σ | Number of tests in the pack | (i | Read product insert before use | | |
| LOT | Lot (batch) number | = | Manufacturer | | |
| Ī | Fragile, handle with care | 23 | Expiry date | | |
| | Manufacturer fax number | | Do not use if package is damaged | | |
| | Manufacturer telephone number | | | | |

Cepartner4U

Certificate number: 2017-IVD/193

Certificate of CE-Notification

This is to certify that, in accordance with the *In Vitro* Diagnostic Medical Device Directive 98/79/EC, **CEpartner4U BV** agrees to perform all duties and responsibilities as the Authorized Representative for

CJSC EKOlab

1 Budennogo Str., Elektrogorsk, Moscow region, 142530, Russia

as stipulated and demanded by the aforementioned Directive. The Dutch Competent Authorities have accepted the manufacturer's medical device registrations by CEpartner4U as listed on the product list attached to the manufacturer's Declaration of Conformity:

Device group: Rabbit plasma

IVD devices were registered under number:
Registration number Rabbit plasma: NL-CA002-2017-43242

with Dutch Competent Authorities as a consequently this IVD devices were entered in EUDAMED by Dutch Competent Authorities

The manufacturer has provided CEpartner4U with all necessary documentation, together with an appropriate Declaration of Conformity that the IVD medical devices fulfil the essential requirements of Directive 98/79/EC.

2017-12-18

Olga Teirlinck Consultant CEpartner4U BV Cepartner4U Esdoomlaan13

3951 DB Maarn NL tel: +31 (0)343 442 524 www.cepartner4u.nl

Declaration of Conformity

STED130-2017 vs. 01

Page: 1 of 2

DECLARATION OF CONFORMITY

| 1) | <u>Manuta</u> | <u>cturer</u> (Name, | departn | nent): <u>CJSC</u> | EKOlab | | | |
|-------|---------------|----------------------|---------|--------------------|----------|-----------|---------|--------|
| Addre | ess: | 1 Budennog | o Str., | Elektrogors | k, Mosco | w region, | 142530, | Russia |

2) European authorized representative: CEpartner4U BV,

Address: EsdoornLaan 13, 3951DB Maarn, The Netherlands; (on product labels printed as: CEpartner4U, EsdoornLaan 13, 3951DB Maarn, The Netherlands. www.cepartner4u.com)

3) Product(s) (name, type or model/batch number, etc.):

| - | Rabbit plasma | |
|---|---------------|--|
| | | |

4) The product(s) described above is in conformity with:

| <u>Title</u> | Document No. |
|---|--------------|
| In vitro Diagnostic Medical Devices Directive | 98/79/EC |

5) Additional information (conformity procedure, Notified Body, CE certificate, etc.):

Conformity assessment procedure for CE marking: *In vitro* Diagnostic Medical Device Directive, Annex III

Registration nr. : pending

Elektrogorsk, Russia; 2017-11-03

(Place & date of issue (yyyy-mm-dd))

V.Y. Borisov, General Director, CJSC EKOlab (name; function and signature of manufacturer)

Declaration form: Standard ISO/IEC 17050-1:2010



Declaration of Conformity

STED130-2017 vs. 01

Page: 2 of 2

Appendix

Date: 2017-11-08

List of devices.

| Device name | Type/ model/ref number | Risk class / rule ¹ | Code: EMDS/GMDN | First date of CE- compliance |
|---------------|------------------------------|-----------------------------------|--------------------|------------------------------------|
| Rabbit plasma | | Low risk | 15011290/0 | 2017-11-08 |

Declaration form: Standard ISO/IEC 17050-1:2010

See EDMS codes: http://www.edma-ivd.be/ (products classification)/Preference GMDN code

RUSSIAN FEDERATION

СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИМ 0117161 «ПРОМТЕХСТАНДАРТ»

№ РОСС RU.32001.04ИБФ1 в едином реестре зарегистрированных систем добровольной сертификации

СЕРТИФИКАТ СООТВЕТСТВИЯ

Регистрационный номер РОСС RU.04ИБФ1.ОС23.0000308

Срок действия с

30.06.2022

29,06,2025

ОРГАН ПО СЕРТИФИКАЦИИ

№ POCC RU,32001.04ИБФ1.ОС23

Общество с ограниченной ответственностью «ЕВРАЗИЙСКИЙ СОЮЗ СЕРТИФИКАЦИИ» 192289, город Санкт-Петербург, улица Олеко Дундича, дом № 35, корпус 1, литера А, 2-Н, офис 4, тел. +7 (812) 649-93-88, email: info@essert.ru

ВЫДАН

Закрытому акционерному обществу «ЭКОлаб» ИНН 5035025076 ОГРН 1035007106958 Адрес: 142530, РФ, Московская область, г. Электрогорск, ул. Буденного, д. 1

НАСТОЯЩИЙ СЕРТИФИКАТ УДОСТОВЕРЯЕТ, ЧТО СИСТЕМА МЕНЕДЖМЕНТА КАЧЕСТВА МЕДИЦИНСКИХ ИЗДЕЛИЙ

применительно к работам согласно приложению № 1 к настоящему сертификату

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ FOCT ISO 13485-2017 (ISO 13485:2016)

Выдан на основании решения экспертной комиссии. протокол № РОСС RU.04ИБФ1.ОС23.0000308П от 30.06.2022

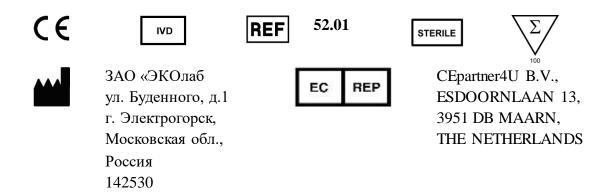
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|-----------------|-------------------|----------|-------------------|
| | для | TOB S | уководитель орга |
| CE Selection | W. TENA ROSPOBOLO | AUX BANK | |
| 100 3 | OCCUPATE N | 冒 / | |
| 18/ | Cionas | | Гредседатель коми |

А.В. Арендарь

А.А. Акимов

с вышеуказанным стандартом, что будет находиться ьной сертификации «ПромТехСтандарт» и подтверждаться при п





Кат № 52.01

Плазма кроличья цитратная сухая

(для реакции плазмокоагуляции)

Назначение

Плазма кроличья цитратная сухая используются для качественного определения патогенности стафилококков с помощью с помощью реакции плазмокоагуляции в пробирке

КРАТКИЙ ОБЗОР И ОПИСАНИЕ

Идентификация стафилококков основана микроскопическом на исследовании, колоний, также характеристиках морфологии культуры биохимических характеристиках. Стафилококки, связанные с острой инфекцией (Staphylococcus aureus у людей; S. intermedius и S. hyicus — у животных) способны вызывать свертывание плазмы. Наиболее широко используемый и общепринятый критерий идентификации данных патогенных микроорганизмов основан на присутствии фермента коагулазы. Способность микроорганизмов Staphylococcus вырабатывать коагулазу была впервые открыта Лёбом (Loeb) в 1903 г.

Коагулаза связывает фибриноген плазмы, вызывая агтлютинацию микроорганизмов или свертывание плазмы. Возможно образование двух видов коагулазы: свободная и связанная. Свободная коагулаза — это внеклеточный фермент, образуемый при культивировании микроорганизма в бульоне. Связанная коагулаза, известная также как фактор слипания, остается прикрепленной к клеточной стенке микроорганизма. Тест в пробирке позволяет обнаружить присутствие как связанной, так и свободной коагулазы. Культуры, не вырабатывающие фактор слипания, должны быть протестированы на способность вырабатывать внеклеточную (свободную) коагулазу.

Плазма кроличья цитратная для реакции плазмокоагуляции рекомендуется для выполнения прямого теста в пробирке. Посев, используемый для тестирования, должен быть чистым, поскольку примеси могут привести к ложным результатам после продолжительной инкубации.

ПРИНЦИПЫ МЕТОДИКИ

Метод основан на образовании (коагуляции) фибринового сгустка из фибриногена цитратной плазмы под действием фермента плазмокоагулазы патогенных стафилококков.



Тест в пробирке выполняется путем добавления сугочной культуры в пробирку с цитратной плазмой, разведенной 0,9% раствором натрия хлорида 1:5 с перемешиванием. Пробирка инкубируется при температуре 37 °C. Формирование сгустка плазмы указывает на выработку коагулазы.

РЕАГЕНТЫ

Плазма кроличья цитратная сухая

— это лиофилизированная кроличья плазма, стерильная, содержащая 5% водный раствор цитрата натрия в соотношении 5:1.

ПРЕДУПРЕЖДЕНИЯ И МЕРЫ ПРЕДОСТОРОЖНОСТИ

Для диагностики in vitro.

Продукт содержит лиофильно высушенные компоненты крови.

При выполнении любых процедур соблюдайте правила асептики и установленные меры биологической безопасности. После использования обеззараживайте образцы, контейнеры, стекла, пробирки и другие загрязненные материалы в автоклаве.

Необходимо тщательно выполнять указания по применению

ХРАНЕНИЕ

Храните невскрытые упаковки с лиофилизированной плазмой кроличьей цитратной для реакции плазмокоагуляции при температуре от 2 до 8 °C.

Разведенную 0,9% раствором натрия хлорида плазму храните при температуре 2 до 8 °C не более 2 дней либо отберите аликвоты, немедленно заморозьте и храните при температуре -20 °C не более 30 дней. Разморозка и повторная заморозка не допускаются. Указанный срок хранения действителен только для продукта, хранящегося в запечатанном контейнере при соблюдении условий хранения. Не используйте продукт в случае его затвердевания, обесцвечивания или других признаков разложения. Проверьте восстановленные реагенты на наличие признаков загрязнения, испарения или других признаков разложения, например помутнения или частичного свертывания.

СБОР И ПРИГОТОВЛЕНИЕ ОБРАЦОВ

Образцы следует собирать в стерильные контейнеры или с помощью стерильного тампона и немедленно передавать в лабораторию в соответствии с требованиям и рекомендациями применимым местным, региональным и/или федеральным законодательством.

Обрабатывайте каждый образец в соответствии с методиками контроля качества, принятыми в лаборатории

В реакции используется суточная бульонная или агаровая культура стафилококка. Описанная далее методика требует использования чистой культуры.

Используйте изолированные колонии из чистой суточной агаровой или бульонной культуры, выращенной при 35-37 °C и исследованной морфологически (на типичность



морфологии колоний) и микроскопически (в окрашенном по Граму препарате-мазке должны наблюдаться грамположительные кокки).

МЕТОДИКА

Поставляемые материалы. Плазма кроличья цитратная сухая

Необходимые, но непоставляемые материалы: Бактериологическая петля для посева, пипетки, пробирки стерильные($10 \times 75 \text{ мм}$),, стерильный 0.9% раствор натрия хлорида, пробирки с культурами малые ($10 \times 75 \text{ мм}$), водяная баня или термостат (37 °C), питательная среда для культивирования микроорганизмов.



Приготовление реагента

Растворите в асептических условиях плазму кроличью цитратную в 5 мл стерильного 0,9% раствора натрия хлорида, что соответствует разведению 1:5. Тщательно перемещайте.

| Объем реагента | Стерильный 0,9% раствор | Приблизительное количество |
|----------------|-------------------------|----------------------------|
| | натрия хлорида | тестов |
| 1 мл | 5 мл | 10 |

МЕТОДИКА ТЕСТИРОВАНИЯ

- 1.С помощью стерильной пипетки емкостью 1 мл добавьте 0,5 мл плазмы кроличьей цитратной для реакции плазмокоагуляции, разведенной в стерильную пробирку 10 х 75 мм, установленную в штатив.
- 2.С помощью серологической пипетки емкостью 1 мл добавьте приблизительно 0,05 мл суточной бульонной культуры тестируемого микроорганизма в пробирку с плазмой. Можно также с помощью стерильной бактериологической петли тщательно эмульгировать 2 4 колонии (1 полную петлю) из чашки с питательным агаром в пробирке с плазмой.
- 3. Аккуратно перемешайте.
- 4.Инкубируйте при температуре 37 °С в течение 24 часов.
- 5.Периодически осматривайте пробирки, слегка наклоняя их. Не трясите и не взбалтывайте пробирки. Это может вызвать разрушение сгустка и привести к сомнительным или ложным отрицательным результатам теста. Свертывание любой степени, произошедшее за 4 часа, считается положительным результатом. Многие штаммы, слабо вырабатывающие ферменты, вызовут коагуляцию плазмы только через 24 ч инкубации. Окончательный учет результатов проводится через 24 часа. 6.Запишите результаты.

контроль качества

Во время использования проверьте эффективность плазмы кроличьей цитратной для реакции плазмокоагуляции, методику и методологию с помощью положительной и отрицательной контрольных культур. Далее приведен минимальный список культур, которые необходимо использовать для проверки эффективности.

| Микроорганизмы | ATCC | Реакция |
|----------------------------|-------|-------------------------------|
| Staphylococcus aureus | 6538 | Сгусток в пробирке |
| Staphylococcus epidermidis | 14990 | Отсутствие сгустка в пробирке |

Следуйте требованиям контроля качества в соответствии с применимым местным, региональным и/или федеральным законодательством, требованиями аккредитации и методиками контроля качества, принятыми в лаборатории.

РЕЗУЛЬТАТЫ

Любое свертывание плазмы кроличьей цитратной считается положительным



результатом теста. При интерпретации реакций можно руководствоваться следующими

указаниями:

Отрицательный Отсутствие признаков свертывания плазмы

Положительный 1+ Небольшие несвязанные сгустки

Положительный 2+ Небольшой сгусток Положительный 3+ Большой сгусток

Положительный 4+ Все содержимое пробирки сворачивается и не вытекает при

при переворачивании пробирки

ОГРАНИЧЕНИЯ ПРИМЕНЕНИЯ МЕТОДИКИ

1. Некоторые виды микроорганизмов используют цитраты в своем метаболизме и дают ложные положительные реакции на активность коагулазы. Обычно это не вызывает проблем, поскольку тест на коагулазу выполняется практически исключительно для стафилококков. Однако возможно, что бактерии, использующие цитрат, могут являться примесями в культурах *Staphylococcus*, для которых выполняется тест на коагулазу. Эти зараженные культуры при продолжительной инкубации могут дать ложные положительные результаты из-за использования цитрата, поэтому в реакции необходимо использовать только чистую культуру

- 2. Некоторые штаммы S. *aureus* вырабатывают стафилокиназу, которая может лизировать сгустки. Если результаты для пробирок не будут зафиксированы в течение 24 ч инкубации, возможно проявление ложных отрицательных результатов. ¹
- 3. Не используйте плазму, если перед постановкой реакции в ней образовался осадок или сгусток.

НАЛИЧИЕ

№ по каталогу Описание

52.01 Плазма кроличья цитратная сухая 10х1

Набор рассчитан на исследование 100 образцов, включая контрольные

СПРАВОЧНЫЕ МАТЕРИАЛЫ

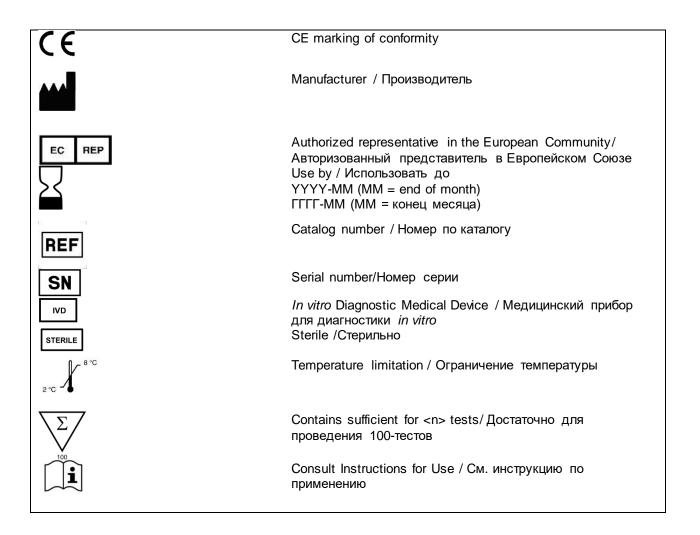
- 1. Об унификации микробиологических (бактериологических) методов исследования, применяемых в клинико-диагностических лабораториях лечебно-профилактических учреждений. «Приказ Министерства здравоохранения СССР, № 535 от 22 апреля 1985 г, Москва.
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По вопросам, касающимся качества препарата, следует обращаться по адресу Россия, 142530 Московская обл, г. Электрогорск, ул Буденного , д.1, ЗАО «ЭКОлаб», тел.(49643)3-23-11, факс (49643) 3-30-93-отдел сбыта, (49643)3-37-30 - ОБТК





Declaration of Conformity

| C |
|---|

| according to Directive 98/79/EC, on in vitro diagnostic medical devices | | | | | | |
|---|--|--|---|--|--|--|
| Maker | Getein Biotech, Inc. | | | | | |
| (Name, Address) | No. 9 Bofu R | No. 9 Bofu Road, Luhe District, Nanjing, 211505, China | | | | |
| Authorized Representative (Name, Address) | Lotus NL B.V. Koningin Julianaplein 10, 1e Verd, 2595AA, The Hague, Netherlands. | | | | | |
| Medical device | Description | | FIA8000 Quantitative Immunoassay Analyzer FIA8600 Quantitative Immunoassay Analyzer Cardiac Troponin I Fast Test Kit One Step Test for cTnl (Colloidal Gold) cTnl Rapid Test (Colloidal Gold Assay) One Step Test for NT-proBNP (Colloidal Gold) One Step Test for NT-proBNP/cTnl (Colloidal Gold) One Step Test for CK-MB/cTnl/Myo (Colloidal Gold) One Step Test for D-Dimer (Colloidal Gold) One Step Test for D-Dimer (Colloidal Gold) One Step Test for PCT (Colloidal Gold) One Step Test for PCT (Colloidal Gold) One Step Test for PCT (Colloidal Gold) One Step Test for MAIb (Colloidal Gold) One Step Test for MGAL (Colloidal Gold) One Step Test for NGAL (Colloidal Gold) One Step Test for HCG+β (Colloidal Gold) One Step Test for PCT/CRP (Colloidal Gold) One Step Test for HCG+β (Colloidal Gold) One Step Test for PCT/CRP (Colloidal Gold) One Step Test for PCT/CRP (Colloidal Gold) One Step Test for CK-MB/cTnl/H-FABP (Colloidal Gold) One Step Test for CK-MB/cTnl/H-FABP (Colloidal Gold) One Step Test for CK-MB/cTnl (Colloidal Gold) One Step Test for TA/T3 (Colloidal Gold) One Step Test for TSH (Colloidal Gold) One Step Test for T4/T3 (Colloidal Gold) One Step Test for T4/T3 (Colloidal Gold) One Step Test for T4 (Colloidal Gold) One Step Test for SAA (Colloidal Gold) One Step Test for FABA (Colloidal Gold) One Step Test for SAA (Colloidal Gold) One Step Test for FABA (| | | |
| | 10 C | D-Dimer Fast Test Kit (Immunofluorescence Assay) | | | | |

PCT Fast Test Kit (Immunofluorescence Assay) β2-MG Fast Test Kit (Immunofluorescence Assay) mAlb Fast Test Kit (Immunofluorescence Assay) NGAL Fast Test Kit (Immunofluorescence Assay) CysC Fast Test Kit (Immunofluorescence Assay) CK-MB Fast Test Kit (Immunofluorescence Assay) CK-MB/cTnl Fast Test Kit (Immunofluorescence Assay) HCG+β Fast Test Kit (Immunofluorescence Assay) HbA1c Fast Test Kit (Immunofluorescence Assay) PCT/CRP Fast Test Kit (Immunofluorescence Assay) CK-MB/cTnl/H-FABP Fast Test Kit (Immunofluorescence Assay) H-FABP Fast Test Kit (Immunofluorescence Assay) 25-OH-VD Fast Test Kit (Immunofluorescence Assay) TSH Fast Test Kit (Immunofluorescence Assay) T3 Fast Test Kit (Immunofluorescence Assay) T4 Fast Test Kit (Immunofluorescence Assay 25-OH-VD Fast Test Kit (Immunofluorescence Assay) FOB Fast Test Kit (Immunofluorescence Assay) H. pylori Fast Test Kit (Immunofluorescence Assay) SAA Fast Test Kit (Immunofluorescence Assay) LH Fast Test Kit (Immunofluorescence Assay) FSH Fast Test Kit (Immunofluorescence Assay) AMH Fast Test Kit (Immunofluorescence Assay) PRL Fast Test Kit (Immunofluorescence Assay) **CK-MB Control** cTnl Control Myo Control NT-proBNP Control **D-Dimer Control CRP Control PCT Control** β2-MG Control mAlb Control NGAL Control CysC Control H-FABP Control HbA1c Control HCG+B Control CK-MB/cTnl/Myo Control CK-MB/cTnl Control NT-proBNP/cTnl Control **TSH Control** T4/T3 Control T3 Control T4 Control Others Classification of products according to directive Batch/serial No. Type, production term (if applicable)

| | EN ISO 14971:2012 | EN ISO 23640:2015 | EN ISO 13485:2016 |
|--------------|-------------------|----------------------|----------------------|
| Applicable | EN 13612:2002 | EN ISO15223-1:2012 | EN ISO 18113-2:2011 |
| coordination | EN 1041:2008 | EN ISO 18113-1:2011 | EN ISO 18113-3:2011 |
| standards: | IEC 61010-1:2010 | IEC 61010-2-081:2015 | IEC 61010-2-101:2015 |
| Ciarida do. | IEC 61326-1:2013 | IEC 61326-2-2:2013 | |

Signatory representative declares herein the above mentioned device meets the basic requirements of the European Parliament and the Council's in vitro diagnostic medical devices directive: 98/79/EC Annex III. This declaration of conformity is based on European Parliament and the Council's 98/79/EC directive Annex III. The compiled technical file and quality system document according to 98/79/EC directive Annex III are testified and the quality system certificate has issued by TÜV Rheinland (Shanghai) Co., Ltd.

General Manager: Enben Su

(place and date of issue)

(name and signature or equivalent

marking of authorized person)







Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 13485:2016

This is to certify that: Getein Biotech, Inc.

No.9 Bofu Road Luhe District Nanjing Jiangsu 211505 China 基蛋生物科技股份有限公司

全 中 工 斯 京 京 市 六 合 区

沿江工业开发区 博富路9号 邮编: 211505

Holds Certificate No: MD 728432

and operates a Quality Management System which complies with the requirements of ISO 13485:2016 for the following scope:

Design & Development, Manufacture and Distribution of Chemiluminescence Immunoassay, Biochemistry Assay, Point of Care Assay (including Colloidal Gold Assay, Immunofluorescence Assay, Dry Chemistry Assay). Design & Development, Manufacture and Distribution of Analyzers in use of Chemiluminescence Immunoassay, Biochemistry Assay, Point of Care Assay (including Colloidal Gold Assay, Immunofluorescence Assay, Dry Chemistry Assay). 研发,生产和销售化学发光法试剂,生化试剂,即时诊断(包括胶体金法,免疫荧光法,干式化学法)试剂。

研发,生产和销售用于化学发光法试剂,生化试剂,即时诊断(包括胶体金法,免疫荧光法,于式化学法)试剂配套使用的分析仪。

For and on behalf of BSI:

Gary E Slack, Senior Vice President - Medical Devices

jany C Stade

Original Registration Date: 2020-05-29 Effective Date: 2020-07-26 Latest Revision Date: 2020-07-22 Expiry Date: 2023-07-25

Page: 1 of 1

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...making excellence a habit."

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be authenticated <u>online</u>.

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evaluation of patients suspected of having an AMI.

Cardiac Troponin I **Fast Test Kit**

User Manual

Cat.# CG2001

INTENDED USE

Cardiac Troponin I Fast Test Kit is intended for in vitro qualitative and semi-quantitative determination of cardiac Troponin I (cTnI) in serum, plasma or whole blood. This test is used as an aid in the diagnosis of myocardial injury such as Acute Myocardial Infarction (AMI), Unstable Angina, Acute Myocarditis and Acute Coronary Syndrome (ACS).

SUMMARY

Troponin, a molecular complex that is bound to the thin filament (actin) of striated muscle fibers, acts with intracellular calcium to control the interaction of the thin filament with the thick filament (myosin), thus regulating muscle contraction. Troponin consists of three subunits: T. which connects the troponin complex and tropomyosin (another cardiac muscle regulatory protein): I. which prevents muscle contraction in the absence of calcium: and C. which binds calcium. Cardiac Troponin I (MW 22.5 kDa) and the two skeletal muscle isoforms of Troponin I have considerable amino acid sequence homology, but cTnl contains an additional N-terminal sequence and is highly specific for myocardium.

Clinical studies have demonstrated the release of cTnl into the blood stream within hours following acute myocardial infarctions (AMI) or ischemic damage. Elevated levels of cTnI are detectable in blood within 4 to 6 hours after the onset of chest pain. reaching peak concentrations in approximately 8 to 28 hours, and remain elevated for 3 to 10 days following AMI. Due to the high myocardial specificity and the long duration of elevation, cTnI has become an important marker in the diagnosis and

The current guideline of The Joint European Society of Cardiology/ American College of Cardiology Committee support the use of cTnI as a preferred marker of myocardial injury. Several major studies have shown that cTnI is also a predictor of cardiac risk in patients with unstable angina. The American College of Cardiology and the American Heart Association's current auidelines recommend using troponin results when making treatment decisions regarding unstable angina and non-ST segment elevation MI (NSTEMI).

PRINCIPLE

The test uses an anti-human cTnI monoclonal antibody conjugated with colloidal gold and another anti-human cTnl monoclonal antibody coated on the test line. After the sample has been applied to the test strip, the gold-labelled anti-human cTnI monoclonal antibody binds with the cTnI in sample and forms a marked antigen-antibody complex. This complex moves to the test card detection zone by capillary action. Then marked antigen-antibody complex is captured on the test line by the anti-human cTnI monoclonal antibody resulting in a purplish red streak appears on the test line. The color intensity of the test line increases in proportion to the amount of cTnI in sample

CONTENTS

A kit contains:

| Getein cTnI test card in a sealed pouch with desiccan |
|---|
| 2! |
| 2. Disposable pipet ····· 2 |
| 3. User manual 1 |
| 4. Standard colorimetric card ······ 1 |
| 5. Whole blood buffer ····· 1 |
| A test card consists of: |

A plastic shell and a reagent strip which is composed of a sample pad, a colloid gold pad (coated with gold-labelled antihuman cTnI monoclonal antibody), nitrocellulose membrane (the test line is coated with anti-human cTnl monoclonal antibody, and the control line is coated with rabbit anti-mouse IgG antibody), absorbent paper and liner.

Whole blood buffer composition:

Phosphate buffered saline, proteins, detergent, preservative, stabilizer

Note: Do not mix or interchange different batches of kits.

STORAGE AND STABILITY

Store the test card at 4~30°C with a valid period of 24 months. Use the test card within 1 hour once the foil pouch is opened. Store the whole blood buffer at 0~30°C with a valid period of 24 months.

Store the whole blood buffer at 2~8°C for better results.

PRECAUTIONS

- 1. For in vitro diagnostic use only.
- 2. For professional use only.
- 3. Do not use the kit beyond the expiration date.
- 4. Do not use the test card if the foil pouch is damaged.
- 5. Do not open pouches until ready to perform the test.
- 6. Do not reuse the test card.
- 7. Do not reuse the pipet.
- 8. Handle all specimens as potentially infectious. Proper handling and disposal methods should be followed in accordance with local regulations.
- 9. Carefully read and follow user manual to ensure proper test performance.

SPECIMEN COLLECTION AND PREPARATION

- 1. This test can be used for serum, plasma or whole blood samples. Heparin, EDTA or sodium citrate should be used as the anticoagulant for plasma and whole blood. Samples should be free of hemolysis.
- 2. Suggest using serum or plasma for better results.
- 3. Serum or plasma can be used directly. For whole blood sample, whole blood buffer must be added before testing.
- 4. If testing will be delayed, serum and plasma samples may be stored up to 7 days at 2~8°C or stored at -20°C for 6 months before testing (whole blood sample may be stored up to 3 days at 2~8°C).

- Refrigerated or frozen sample should reach room temperature and be homogeneous before testing. Avoid multiple freezethaw cycles.
- 6. Do not use heat-inactivated samples.
- 7. SAMPLE VOLUME: 80 µl.

TEST PROCEDURE

- 1. Collect specimens according to user manual.
- Test card, sample and reagent should be brought to room temperature before testing.
- Remove the test card from the sealed pouch immediately before use. Label the test card with patient or control identification
- 4. Put the test card on a clean table, horizontally placed.
- 5. Using sample transfer pipette, deliver 80 µI of sample (or 3 drops of sample when using disposable pipet) into the sample port on the test card (for whole blood sample, one drop of whole blood buffer must be added after loading 80 µI sample on the test card).
- Read the results visually in 15 minutes. For semiquantitative interpretation of results, please refer to the standard colorimetric card

TEST RESULTS

Negative: A single purplish red band appears at the control area (C) without any other band at test line is a valid negative result, indicating the concentration of cTnl in the sample is below the cut-off value.

Positive: A single purplish red band appears at the control area (C) and a purplish red colored band appears in test line is a valid positive result. The intensity of the purplish red color in the test line helps to read the semi-quantitative result visually according to the standard colorimetric card:

| Color intensity | Reference Concentration (ng/ml) | | |
|-----------------|---------------------------------|--|--|
| _ | <0.3 | | |
| +- | 0.3~1 | | |
| + | 1~5 | | |
| ++ | 5~15 | | |
| +++ | 15~30 | | |
| ++++ | 30~50 | | |
| ++++ | >50 | | |

Invalid: If no colored band appears in the control area (C) in 15 minutes, the test result is invalid. The test should be repeated and if the same situation happened again, please stop using this batch of products and contact your supplier.

EXPECTED VALUE

The expected normal value for Troponin I was determined by testing samples from 500 apparently healthy individuals. The 99th percentile of the concentration for cTnI is 0.3 ng/ml, (The probability that value of a normal person below 0.3 ng/ml is 99%). cTnI concentration less than 0.3 ng/ml can be estimated as normal

It is recommended that each laboratory establish its own expected values for the population it serves.

LIMITATIONS

As with all diagnostic tests, a definitive clinical diagnosis should not be made based on the result of a single test. The test results should be interpreted considering all other test results and clinical information such as clinical signs and symptoms.

REFERENCES

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- Antman EM, Anbe DT, Armstrong PW, et al. ACC/AHA guidelines for the management of patients with ST-elevation myocardial infarction: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee to Revise the 1999 Guidelines for the Manage 2004).
- EN ISO 18113-1:2011 In vitro diagnostic medical devices -Information supplied by the manufacturer (labelling) - Part 1: Terms, definitions and general requirements.
- EN ISO 18113-2:2011 In vitro diagnostic medical devices -Information supplied by the manufacturer (labelling) - Part
 In vitro diagnostic reagents for professional use (ISO18113-2:2011).

DESCRIPTION OF SYMBOLS USED

The following graphical symbols used in or found on Cardiac Troponin I Fast Test Kit are the most common ones appearing on medical devices and their packaging. They are explained in more details in the European Standard EN 980:2008 and International Standard ISO 15223 – 1: 2012.

| | Key to symbols used | | | | | | | |
|-----|------------------------------|----------|---|--|--|--|--|--|
| *** | Manufacturer | | Expiration date | | | | | |
| (2) | Do not reuse | ~ | Date of manufacture | | | | | |
| []i | Consult instructions for use | LOT | Batch code | | | | | |
| 1 | Temperature limitation | IVD | In vitro diagnostic medical device | | | | | |
| Σ | Sufficient for | | Authorized representative in the European Community | | | | | |
| (€ | CE mark | ® | Do not use if package is damaged | | | | | |

Thank you for purchasing Cardiac Troponin I Fast Test Kit. Please read this user manual carefully before operating to ensure proper use.

Version: WCG01A-DX-S-02



Getein Biotech, Inc.

Add: No.9 Bofu Road, Luhe District, Nanjing, 211505, China



浙江东方基因生物制品股份有限公司 Zhejiang Orient Gene Biotech Co., LTD

 ϵ

CE-DOC-OG048 Version 3.0

EC Declaration of Conformity

In accordance with Directive 98/79/EC

Legal Manufacturer: Zhejiang Orient Gene Biotech Co., Ltd

Legal Manufacturer Address: 3787#, East Yangguang Avenue, Dipu Street,

Anji 313300, Huzhou, Zhejiang, China

Declares, that the products Product Name and Model(s)

D-Dimer Rapid Test Cassette (Whole Blood/Plasma) GDDDI-402b

Classification: Other

Conformity assessment route: Annex III (EC DECLARATION OF CONFORMITY)

We, the Manufacturer, herewith declare with sole responsibility that our product/s mentioned above meet/s the provisions of the Directive 98/79/EC of the European Parliament and of the Council on In-Vitro Diagnostic Medical Devices.

We hereby explicitly appoint

EC Representative's Name: QARAD BV

EC Representative's Address: Cipalstraat 3, 2440 Geel BELGIUM

to act as our European Authorized Representative as defined in the aforementioned Directive.

I, the undersigned, hereby declare that the medical devices specified above conform with the directive 98/79/EC on in vitro diagnostic medical devices and pertinent essential requirements

Date Signed: November 11, 2021

Name of authorized signatory: Joyce Pang Position held in the company: Vice-President



浙江东方基因生物制品股份有限公司 Zhejiang Orient Gene Biotech Co., LTD



CE-DOC-OG077 Version 1.0

EC Declaration of Conformity

In accordance with Directive 98/79/EC

Legal Manufacturer: Zhejiang Orient Gene Biotech Co., Ltd

Legal Manufacturer Address: 3787#, East Yangguang Avenue, Dipu Street,

Anji 313300, Huzhou, Zhejiang, China

Declares, that the products Product Name and Model(s)

CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma) GDCKM-402a

Classification: Other

Conformity assessment route: Annex III (EC DECLARATION OF CONFORMITY)

We, the Manufacturer, herewith declare with sole responsibility that our product/s mentioned above meet/s the provisions of the Directive 98/79/EC of the European Parliament and of the Council on In-Vitro Diagnostic Medical Devices.

We hereby explicitly appoint

EC Representative's Name: Shanghai International Holding Corp. GmbH (Europe)

EC Representative's Address: Eiffestrasse 80, 20537 Hamburg, Germany

to act as our European Authorized Representative as defined in the aforementioned Directive.

I, the undersigned, hereby declare that the medical devices specified above conform with the directive 98/79/EC on in vitro diagnostic medical devices and pertinent essential requirements

Date Signed: April 3, 2018

Name of authorized signatory: Joyce Pang Position held in the company: Vice-President

Tyle Pof.







Product Service

EC Certificate

EC Design-Examination Certificate
Directive 98/79/EC on In Vitro Diagnostic Medical Devices (IVDD), Annex IV (4) (List A)

No. V7 092378 0009 Rev. 00

Manufacturer: Healgen Scientific Limited

Liability Company

3818 Fuqua Street Houston TX 77047

USA

Product: Screening test for Hepatitis C marker

The Certification Body of TÜV SÜD Product Service GmbH declares that a design examination has been carried out on the respective devices in accordance with IVDD Annex IV (4). The design of the devices conforms to the requirements of this Directive. All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:V7 092378 0009 Rev. 00

Report No.: 713234651

 Valid from:
 2022-04-22

 Valid until:
 2025-05-26

Date, 2022-04-22

Christoph Dicks

Head of Certification/Notified Body



EC Certificate

EC Design-Examination Certificate
Directive 98/79/EC on In Vitro Diagnostic Medical Devices (IVDD), Annex IV (4) (List A)

No. V7 092378 0009 Rev. 00

Model(s): HCV Hepatitis C Virus Rapid Test

Facility(ies): Zhejiang Orient Gene Biotech Co., Ltd.

3787#, East Yangguang Avenue, Dipu Street Anji,

313300 Huzhou, Zhejiang, PEOPLE'S REPUBLIC OF CHINA

Parameters: Model Name: Model No.:

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HCV Hepatitis C Virus Rapid Test

(Serum / Plasma) (Cassette) GCHCV-302a

HCV Hepatitis C Virus Rapid Test

(Whole Blood /Serum / Plasma) (Cassette) GCHCV-402a









Product Service

Certificate

No. Q5 092305 0001 Rev. 01

Holder of Certificate: Zhejiang Orient Gene Biotech Co., Ltd.

3787#, East Yangguang Avenue, Dipu Street Anji

313300 Huzhou, Zhejiang

PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Scope of Certificate: Design and Development, Production and Distribution

of In Vitro Diagnostic Reagent and Instrument for the Detection of Drugs of Abuse, Fertility, Infectious Diseases, Oncology, Biochemistry, Cardiac Diseases, Allergic Disease based on Rapid Test, PCR and Liquid

Biochip Method.

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:Q5 092305 0001 Rev. 01

Report No.: SH2198802

 Valid from:
 2022-04-11

 Valid until:
 2024-03-16

Date, 2022-04-11 Christoph Dicks

Head of Certification/Notified Body



Certificate

No. Q5 092305 0001 Rev. 01

Applied Standard(s): EN ISO 13485:2016

Medical devices - Quality management systems -

Requirements for regulatory purposes

(ISO 13485:2016) DIN EN ISO 13485:2016

Facility(ies): Zhejiang Orient Gene Biotech Co., Ltd.

3787#, East Yangguang Avenue, Dipu Street Anji, 313300 Huzhou, Zhejiang, PEOPLE'S REPUBLIC OF CHINA

See Scope of Certificate

HBsAg Rapid Test Cassette (Whole Blood/Serum/Plasma)

INTENDED USE

The HBsAg Rapid Test Cassette is a lateral flow chromatographic immunoassay for the qualitative detection of Hepatitis B surface antigen (HBsAg) in human whole blood, serum or plasma. It is intended to be used as a screening test and as an aid in the diagnosis of infection with Hepatitis B virus (HBV). Any reactive specimen with the HBsAg Rapid Test Cassette must be confirmed with alternative testing method(s) and clinical findings.

INTRODUCTION

Viral hepatitis is a systemic disease primarily involving the liver. Most cases of acute viral hepatitis are caused by Hepatitis A virus, Hepatitis B virus (HBV) or Hepatitis C virus. The complex antigen found on the surface of HBV is called HBsAg. The presence of HBsAg in serum or plasma is an indication of an active Hepatitis B infection, either acute orchronic. In a typical Hepatitis B infection, HBsAg will be detected 2 to 4 weeks before the ALT level becomes abnormal and 3 to 5 weeks before symptoms or jaundice develop. HBsAg four principal subtypes: adw, ayw, adr and ayr. Because of antigenic heterogeneity of the determinant, there are 10 major serotypes of Hepatitis B virus. The HBsAg Test Cassette (Whole Blood/Serum/Plasma) is a rapid test to qualitatively detect the presence of HBsAg in whole blood, serum or plasma specimens. The test utilises a combination of double monoclonal antibodies to selectively detect elevated levels of HBsAg in whole blood, serum or plasma.

PRINCIPLE

The HBsAg Rapid Test Cassette is a lateral flow chromatographic immunoassay based on the principle of the double antibody—sandwich technique. The membrane is pre-coated with anti-HBsAg antibodies on the test line region of the test. During testing, Hepatitis B Surface Antigen in the whole blood, serum or plasma specimen reacts with the particle coated with anti-HBsAg antibody. The mixture migrates upward on the membrane chromatographically by capillary action to react with anti-HBsAg antibodies on the membrane and generate a colored line. The presence of this colored line in the test region indicates a positive result, while its absence indicates a negative result. To serve as a procedural control, a colored line will always appear in the control line region indicating that the proper volume of specimen has been added and membrane wicking has occurred.

PRODUCT CONTENTS

The HBsAg Test Cassette (Whole Blood/Serum/Plasma) containing anti-HBsAg antibodies particles and anti-HBsAg antibodies coated on the membrane.

MATERIALS SUPPLIED

- 1. Test Cassette
- 2. Desiccant
- 3. Pipette Dropper
- 4. Buffer
- 5. Package Insert

MATERIAL REQUIRED BUT NOT PROVIDED

- 1. Specimen collection containers
- 2.Lancets (for fingerstick whole blood only)
- 3. Centrifuge (for plasma only)
- 4.Timer
- 5. Heparinized capillary tubes and dispensing bulb (for fingerstick whole blood only)

STORAGE AND STABILITY

The kit can be stored at room temperature or refrigerated (2-30°C). The test device is stable through the expiration date printed on the sealed pouch. The test device must remain in the sealed pouch until use. DO NOT FREEZE. Do not use beyond the expiration date.

WARNINGS AND PRECAUTIONS

- 1. For professional In Vitro diagnostic use only. Do not use after expiration date.
- 2.Warning: the reagents in this kit contain sodium azide which may react with lead or copper plumbing to form potentially explosive metal azides. When disposing of such reagents, always flush with large volumes of water to prevent azide build-up.
- 3.Do not use it if the tube/pouch is damaged or broken.

- 4. Test is for single use only. Do not re-use under any circumstances.
- 5.Handle all specimens as if they contain infectious agents. Observe established precautions against microbiological hazards throughout testing and follow the standard procedures for proper disposal of specimens.
- 6.Wear protective clothing such as laboratory coats, disposable gloves and eye protection when specimens are assayed.
- 7. Humidity and temperature can adversely affect results.
- 8.Do not perform the test in a room with strong air flow, ie. electric fan or strong airconditioning.

SPECIMEN COLLECTION

- 1.HBsAg Rapid Test Cassette (Whole Blood/Serum/Plasma) can be performed using whole blood (from venipuncture or fingerstick), serum or plasma.
- 2.To collect Fingerstick Whole Blood specimens:
- Wash the patient's hand with soap and warm water or clean with an alcohol swab. Allow to dry.
- Massage the hand without touching the puncture site by rubbing down the hand towards the fingertip of the middle or ring finger.
- Puncture the skin with a new sterile lancet for each person. Wipe away the first sign of blood.
- Gently rub the hand from wrist to palm to finger to form a rounded drop of blood over the puncture site.
- Add the Fingerstick Whole Blood specimen to the test device by using a capillary tube:
- · Touch the end of the capillary tube to the blood until filled to approximately 50 µL. Avoid air bubbles.
- Place the bulb onto the top end of the capillary tube, then squeeze the bulb to dispense the whole blood into the specimen well (S) of the test device.
- Add the Fingerstick Whole Blood specimen to the test device by using hanging drops:
- · Position the patient's finger so that the drop of blood is just above the specimen well (S) of the test device.
- · Allow 2 hanging drops of fingerstick whole blood to fall into the center of specimen well (S) on the test device, or move the patient's finger so that the hanging drop touches the center of the specimen well (S). Avoid touching the finger directly to the specimen well (S).
- 3. Separate serum or plasma from blood as soon as possible to avoid hemolysis. Use only clear, non-hemolyzed specimens
- 4.Testing should be performed immediately after specimen collection. Do not leave the specimens at room temperature for prolonged periods. Serum and plasma specimens may be stored at 2-8°C for up to 3 days. For long term storage, specimens should be kept below -20°C. Whole blood collected by venipuncture should be stored at 2-8°C if the test is to be run within 2 days of collection. Do not freeze whole blood specimens. Whole blood collected by fingerstick should be tested immediately.
- 5.Bring specimens to room temperature prior to testing. Frozen specimens must be completely thawed and mixed well prior to testing. Specimens should not be frozen and thawed repeatedly.
- 6.If specimens are to be shipped, they should be packed in compliance with local regulations covering the transportation of etiologic agents.

TEST PROCEDURE

Allow test device, specimen, buffer and/or controls to equilibrate to room temperature (15-30°C) prior to testing.

- 1.Remove the test device from the foil pouch and use it as soon as possible. Best results will be obtained if the assay is performed within one hour.
- 2. Place the test device on a clean and level surface.

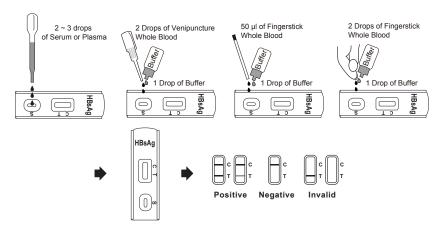
For Serum or Plasma Specimens: Hold the dropper vertically and transfer 2-3 drops of serum or plasma (approximately 60-90 µL) to the specimen well (S) of the test device. See illustration below.

For Venipuncture Whole Blood Specimens: Hold the dropper vertically and transfer 2 drops of venipuncture whole blood (approximately 50µL) to the specimen well (S) of the test device, then add 1 drop of buffer (approximately 40 µL) and start the timer. See illustration below.

For Fingerstick Whole Blood Specimens: Allow 2 hanging drops of fingerstick whole blood (approximately 50 μ L) to fall into the center of the specimen well (S) on the test device, then add 1 drop of buffer (approximately 40 μ

- L) and start the timer. See illustration below.
- 3. Wait for the red line(s) to appear. The result should be read in 15 minutes. Do not interpret the result after 15 minutes.

HBsAg Rapid Test Cassette (Whole Blood/Serum/Plasma)



INTERPRETATION OF RESULTS

(Please refer to the illustration above)

POSITIVE: Two distinct red lines appear. One line should be in the control region (C) and another line should be in the test region (T).

NEGATIVE: One red line appears in the control region (C). No apparent red or pink line appears in the test region (T).

INVALID: Control line fails to appear. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test with a new test Cassette. If the problem persists, discontinue using the test kit immediately and contact your local distributor.

QUALITY CONTROL

A procedural control is included in the test. A red line appearing in the control region (C) is the internal procedural control. It confirms sufficient specimen volume and correct procedural technique.

Control standards are not supplied with this kit; however it is recommended that positive and negative controls be tested as a good laboratory practice to confirm the test procedure and to verify proper test performance.

LIMITATIONS

- 1. Though the HBsAg Rapid Test Cassette is a reliable screening assay, it should not be used as a sole criterion for diagnosis of HBV infection.
- 2. The HBsAg Rapid Test Cassette is limited to the qualitative detection of HBsAg in human whole blood, serum or plasma. The intensity of the test band does not have linear correlation with HBsAg titer in the specimen.
- 3. A negative test result does not preclude the possibility of exposure to or infection with HBV. Infection through recent exposure (seroconversion) to HBV may not be detectable.
- 4. A negative result can occur if the quantity of HBsAg present in the specimen is below the detection limits of the assay (lower than1 ng/mL), or the HBsAg that are detected are not present during the stage of disease in which a sample is collected.
- 5. Interference due to heterophile antibodies, Rheumatoid Factors and other nonanalyte substances in patient's serum, capable of binding antibodies multivalently and providing erroneous analyte detection in immunoassays, has been reported in various studies. Both laboratory professionals and clinicians must be vigilant to this possibility of antibody interference. Results that appear to be internally inconsistent or incompatible with the clinical presentation should invoke suspicion of the presence of an endogenous artifact and lead to appropriate in vitro investigative action.
- 6. This kit is intended ONLY for testing of individual samples. Do not use it for testing of cadaver samples, saliva, urine or other body fluids, or pooled (mixed) blood.

7. As with all diagnostic tests, a definitive clinical diagnosis should not be based on the result of a single test, but should only be made by the physician after all clinical and laboratory findings have been evaluated.

PERFORMANCE CHARACTERISTICS

Sensitivity:

The HBsAg Rapid Test Cassette (Whole Blood/Serum/Plasma) has been tested with a sensitivity panel ranging from 0 to 300 ng/mL. All 10 HBsAg subtypes produced positive results on the HBsAg Rapid Test Cassette (Whole Blood/Serum/Plasma). The test can detect 5ng/mL of HBsAg in 10 minutes, and 1 ng/mL of HBsAg in 15 minutes.

Specificity

Antibodies used for the HBsAg Rapid Test Cassette (Whole Blood/Serum/Plasma) were developed against whole Hepatitis B antigen isolated from Hepatitis B virus. Specificity of the HBsAg Rapid Test Cassette (Whole Blood/Serum/Plasma) was also tested with laboratory strains of Hepatitis A and Hepatitis C. They all yielded negative results.

HBsAg Rapid Test Cassette vs. EIA test

| Method | | Е | Total Results | |
|---------------------------|----------|----------|---------------|---------------|
| | Results | Positive | Negative | Total Hoodito |
| HBsAg Rapid Test Cassette | Positive | 345 | 5 | 350 |
| | Negative | 2 | 980 | 982 |
| Total Re | esults | 347 | 985 | 1332 |

Relative sensitivity: 99.4% Relative specificity: 99.5% Accuracy: 99.5%

REFERRENCE

1. Blumberg, B. S. The Discovery of Australian Antigen and its relation to viral hepatitis. Vitro. 1971; 7: 223

HCV Ab Rapid Test Cassette (Whole Blood/Serum/Plasma)

INTENDED USE

The HCV Ab Rapid Test Cassette (Whole Blood/Serum/Plasma) is a sandwich lateral flow chromatographic immunoassay for the qualitative detection of antibodies (IgG, IgM, and IgA) anti- Hepatitis C virus (HCV) in human whole blood, serum or plasma. It is intended to be used as a screening test and as an aid in the diagnosis of infection with HCV. Any reactive specimen with the HCV Ab Rapid Cassette must be confirmed with alternative testing method(s) and clinical findings.

INTRODUCTION

Hepatitis C Virus (HCV) is a small, enveloped, positive-sense, single-stranded RNA Virus. Antibody to HCV is found in over 80% of patients with well-documented non-A, non-B hepatitis. Conventional methods fail to isolate the virus in cell culture or visualize it by electron microscope. Cloning the viral genome has made it possible to develop serologic assays that use recombinant antigens (1, 2). Compared to the first generation HCV EIAs using single recombinant antigen, multiple antigens using recombinant protein and/or synthetic peptides have been added in new serologic tests to avoid nonspecific cross-reactivity and to increase the sensitivity of the HCV antibody tests (3, 4).

HCV Ab Rapid Test Cassette (Whole Blood/Serum/Plasma) is a rapid test to qualitatively detect the presence of antibody to HCV in a whole blood, serum or plasma specimen. The test utilizes a combination of recombinant antigen to selectively detect elveated levels of HCV antibodies in whole blood, serum or plasma.

PRINCIPLE

The HCV Ab Rapid Test Cassette is a lateral flow chromatographic immunoassay based on the principle of the double antigen–sandwich technique. The test cassette consists of: 1) a burgundy colored conjugate pad containing HCV antigens conjugated with colloidal gold (HCV Ag conjugates) and rabbit IgG-gold conjugates, 2) a nitrocellulose membrane strip containing a test band (T band) and a control band (C band). The T band is pre-coated with non-conjugated HCV antigens, and the C band is pre-coated with goat anti-rabbit IgG. When an adequate volume of test specimen is dispensed into the sample well of the cassette, the specimen migrates by capillary action across the cassette. The antibodies: either the IgG, the IgM, or the IgA, to HCV if present in the specimen will bind to the HCV Ag conjugates. The immunocomplex is then captured on the membrane by the pre-coated HCV antigens, forming a burgundy colored T band, indicating a HCV Ab positive test result. Absence of the T band suggests a negative result. The test contains an internal control (C band) which should exhibit a burgundy colored band of the immunocomplex of goat anti-rabbit IgG-gold conjugate regardless the presence of any antibodies to HCV. Otherwise, the test result is invalid and the specimen must be retested with another device.

PRODUCT CONTENTS

HCV Ab Rapid Test Cassette (Whole Blood/Serum/Plasma) containing HCV antigen coated particles and HCV antigen coated on the membrane.

MATERIALS SUPPLIED

1. Test Strip 2. Pipette Dropper 3.Desiccant 4.Buffer 5.Package Insert

MATERIAL REQUIRED BUT NOT PROVIDED

1.Specimen collection containers 2.L

2.Lancets (for fingerstick whole blood only)

3.Centrifuge (for plasma only) 4.Time

5. Heparinized capillary tubes and dispensing bulb (for fingerstick whole blood only)

STORAGE AND STABILITY

The kit can be stored at room temperature or refrigerated (2-30°C). The test device is stable through the expiration date printed on the sealed pouch. The test device must remain in the sealed pouch until use. DO NOT FREEZE. Do not use beyond the expiration date.

WARNINGS AND PRECAUTIONS

- 1. For professional In Vitro diagnostic use only. Do not use after expiration date.
- 2.Warning: the reagents in this kit contain sodium azide which may react with lead or copper plumbing to form potentially explosive metal azides. When disposing of such reagents, always flush with large volumes of water to

prevent azide build-up.

- 3. Do not use it if the tube/pouch is damaged or broken.
- 4. Test is for single use only. Do not re-use under any circumstances.
- 5. Handle all specimens as if they contain infectious agents. Observe established precautions against microbiological hazards throughout testing and follow the standard procedures for proper disposal of specimens.
- 6. Wear protective clothing such as laboratory coats, disposable gloves and eye protection when specimens are assayed.
- 7. Humidity and temperature can adversely affect results .

SPECIMEN COLLECTION

- 1.The HCV Rapid Test Cassette (Whole Blood/Serum/Plasma) can be performed using whole blood (from venipuncture or fingerstick), serum or plasma.
- 2.To collect Fingerstick Whole Blood specimens:
- ·Wash the patient's hand with soap and warm water or clean with an alcohol swab. Allow to dry.
- Massage the hand without touching the puncture site by rubbing down the hand towards the fingertip of the middle or ring finger.
- · Puncture the skin with a new sterile lancet for each person. Wipe away the first sign of blood.
- · Gently rub the hand from wrist to palm to finger to form a rounded drop of blood over the puncture site.
- · Add the Fingerstick Whole Blood specimen to the test device by using a capillary tube:
- · Touch the end of the capillary tube to the blood until filled to approximately 50 µL. Avoid air bubbles.
- · Place the bulb onto the top end of the capillary tube, then squeeze the bulb to dispense the whole blood into the specimen well (S) of the test device.
- · Add the Fingerstick Whole Blood specimen to the test device by using hanging drops:
- · Position the patient's finger so that the drop of blood is just above the specimen well (S) of the test device.
- · Allow 2 hanging drops of fingerstick whole blood to fall into the center of specimen well (S) on the test device or, move the patient's finger so that the hanging drop touches the center of the specimen well (S). Avoid touching the finger directly to the specimen well (S).
- 3. Separate serum or plasma from blood as soon as possible to avoid hemolysis. Use only clear, non-hemolyzed specimens.
- 4.Testing should be performed immediately after specimen collection. Do not leave the specimens at room temperature for prolonged periods. Serum and plasma specimens may be stored at 2-8°C for up to 3 days. For long term storage, specimens should be kept below -20°C. Whole blood collected by venipuncture should be stored at 2-8°C if the test is to be run within 2 days of collection. Do not freeze whole blood specimens. Whole blood collected by fingerstick should be tested immediately.
- 5.Bring specimens to room temperature prior to testing. Frozen specimens must be completely thawed and mixed well prior to testing. Specimens should not be frozen and thawed repeatedly.
- 6.If specimens are to be shipped, they should be packed in compliance with local regulations covering the transportation of etiologic agents.

TEST PROCEDURE

Allow test device, specimen, buffer and/or controls to equilibrate to room temperature (15-30°C) prior to testing.

- 1.Remove the test device from the foil pouch and use it as soon as possible. Best results will be obtained if the assay is performed within one hour.
- 2. Place the test device on a clean and level surface.

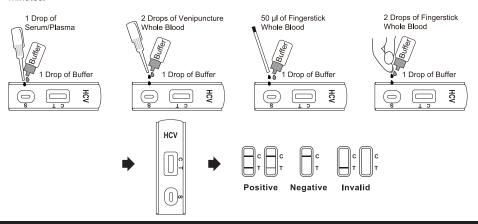
For Serum or Plasma Specimens: Hold the dropper vertically and transfer 1 drop of serum or plasma (approximately $30~\mu L$) to the specimen well (S) of the test device, then add 1 drop of buffer (approximately $40~\mu L$) and start the timer. See illustration below.

For Venipuncture Whole Blood Specimens: Hold the dropper vertically and transfer 2 drops of venipuncture whole blood (approximately 50µL) to the specimen well (S) of the test device, then add 1 drop of buffer (approximately 40 µL) and start the timer. See illustration below.

For Fingerstick Whole Blood Specimens: Allow 2 hanging drops of fingerstick whole blood (approximately 50 μ L) to fall into the center of the specimen well (S) on the test device, then add 1 drop of buffer (approximately 40 μ L) and start the timer. See illustration below.

HCV Ab Rapid Test Cassette (Whole Blood/Serum/Plasma)

3. Wait for the red line(s) to appear. The result should be read in 15 minutes. Do not interpret the result after 15 minutes.



INTERPRETATION OF RESULTS

(please refer to the illustration above)

Positive: Two lines appear. One colored line should be in the control line region (C) and another apparent colored line should be in the test line region (T).

Negative: One colored line appears in the control line region(C). No line appears in the test line region (T).

Invalid: Control line fails to appear. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test with a new test device. If the problem persists, discontinue using the test kit immediately and contact your local distributor.

QUALITY CONTROL

A procedural control is included in the test. A red line appearing in the control region (C) is the internal procedural control. It confirms sufficient specimen volume and correct procedural technique. Control standards are not supplied with this test. However, it is recommended that positive and negative controls are sourced from a local competent authority and tested as a good laboratory practice, to confirm the test procedure and verify the test performance.

LIMITATIONS

- 1. The HCV Ab Rapid Test Cassette (Whole Blood/ Serum/Plasma) is for in vitro diagnostic use only. This test should be used for the detection of antibodies to HCV in whole blood, serum or plasma specimen.
- 2. The HCV Ab Rapid Test Cassette (Whole Blood/Serum/Plasma) will only indicate the presence of antibodies to HCV in the specimen and should not be used as the sole criteria for the diagnosis of Hepatitis C viral infection.
- 3. As with all diagnostic tests, all results must be considered with other clinical information available to the physician.
- 4. If the test result is negative and clinical symptoms persist, additional follow-up testing using other clinical methods is recommended. A negative result at any time does not preclude the possibility of Hepatitis C Virus infection.
- 5. A negative result can occur if the quantity of the antibodies to HCV present in the specimen is below the detection limits of the assay, or the antibodies that are detected are not present during the stage of disease in which a sample is collected.
- 6. Some specimens containing unusually high titer of heterophile antibodies or rheumatoid factor may affect expected results.

PERFORMANCE CHARACTERISTICS

Sensitivity: HCV Ab Rapid Test Cassette (Whole Blood/ Serum/Plasma) has passed a seroconversion panel and compared with leading commercial HCV EIA test using clinical specimens.

Specificity: The recombinant antigens used for HCV Ab Rapid Test Cassette (Whole Blood/Serum/Plasma) are encoded by genes for both structural (nucleocapsid) and non-structural proteins. HCV Ab Rapid Test Cassette (Whole Blood/Serum/Plasma) is highly specific for antibodies to Hepatitis C Virus compared with a leading

commercial HCV EIA test.

The HCV Ab Rapid Test Cassette vs EIA test

| | Method | | EIA | | Total |
|--|---------------------|----------|----------|----------|---------|
| | | Results | Positive | Negative | Results |
| | HCV Ab RapidTest | Positive | 105 | 19 | 124 |
| | | Negative | 2 | 1760 | 1762 |
| | Total Results | | 107 | 1779 | 1886 |

Relative sensitivity: 98.1% Relative specificity: 98.9% Accuracy: 98.9%

REFERRENCE

- 1. Choo, Q.L., G.Kuo,A.J. Weiner, L.R. Overby,D.W. Bradley, andM. Houghton. Isolation of a cDNA clone derived from a blood-borne non-A, non-B viral hepatitis genome Science 189;244:359
- 2. Kuo, G., Q.L. Choo, H.J. Alter, and M. Houghton. An assay for circulating antibodies to a major etiolog Virus of human non-A, non-B hepatitis. Science 1989; 244:362.
- 3. Van der Poel, C.L., H.T.M. Cuypers, H.W. Reesink, and P.N. Lelie .Confirmation of hepatitis C Virus infection by new four- antigen recombinant immunoblot assay. Lancet 1991;337:317
- 4. Wilber, J.C.Development and use of laboratory tests for hepatitis Cinfection: a review.J. Clin. Immunoassy 1993:16:204.

CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma)

A rapid test for the qualitative detection of CK-MB in whole blood, serum or plasma. For professional in vitro diagnostic use only.

INTENDED USE

The CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma) is a rapid chromatographic immunoassay for the qualitative detection of human CK-MB in whole blood, serum or plasma as an aid in the diagnosis of myocardial infarction (MI).

SUMMARY

Creatine Kinase MB (CK-MB) is an enzyme present in the cardiac muscle with a molecular weight of 87.0 kDa. Creatine Kinase is a dimeric molecule formed from two subunits designated as "M" and "B" which combine to form three different isoenzymes, CK-MM, CKBB, and CK-MB. CK-MB is the isoenzyme of Creatine Kinase most involved in the metabolism of cardiac muscle tissue. The release of CK-MB into the blood following MI can be detected within 3-8 hours after the onset of symptoms. It peaks within 9 to 30 hours, and returns to baseline levels within 48 to 72 hours. CK-MB is one of the most important cardiac markers and is widely recognized as the traditional marker for the diagnosis of MI. The CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma) is a simple test that utilizes a combination of anti-CK-MB antibody coated particles and capture reagent to detect CK-MB in whole blood, serum or plasma. The minimum detection level is 5 ng/mL.

PRINCIPLE

The CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma) is a qualitative, membrane based immunoassay for the detection of CK-MB in whole blood, serum or plasma. The membrane is pre-coated with capture reagent on the test line region of the test. During testing, the whole blood, serum or plasma specimen reacts with the particle coated with anti-CK-MB antibodies. The mixture migrates upward on the membrane chromatographically by capillary action to react with capture reagent on the membrane and generate a colored line. The presence of this colored line in the test line region indicates a positive result, while its absence indicates a negative result. To serve as a procedural control, a colored line will always appear in the control line region indicating that proper volume of specimen has been added and membrane wicking has occurred.

REAGENTS

The test contains anti-CK-MB antibody coated particles and capture reagent coated on the membrane.

PRECAUTIONS

- For professional in vitro diagnostic use only. Do not use after expiration date.
- The test must remain in the sealed pouch until use.
- Do not eat, drink or smoke in the area where the specimens or kits are handled.
- · Do not use if pouch is damaged.
- Handle all specimens as if they contain infectious agents. Observe established precautions against microbiological hazards throughout the procedure and follow the standard procedures for proper disposal of specimens.
- Wear protective clothing such as laboratory coats, disposable gloves and eye protection when specimens are being tested.
- · Humidity and temperature can adversely affect results.
- The used test should be discarded according to local regulations.

STORAGE AND STABILITY

Store as packaged in the sealed pouch either at room temperature or refrigerated (2-30°C). The test is stable through the expiration date printed on the sealed pouch. The test must remain in the sealed pouch until use. DO NOT FREEZE. Do not use beyond the expiration date.

SPECIMEN COLLECTION AND PREPARATION

• The CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma) can be performed using whole blood (from venipuncture or fingerstick), serum or plasma.

- To collect Fingerstick Whole Blood specimens:
- · Wash the patient's hand with soap and warm water or clean with an alcohol swab. Allow to dry.
- Massage the hand without touching the puncture site by rubbing down the hand towards the fingertip of the middle or ring finger.
- Puncture the skin with a sterile lancet. Wipe away the first sign of blood.
- · Gently rub the hand from wrist to palm to finger to form a rounded drop of blood over the puncture site.
- · Position the patient's finger so that the drop of blood is just above the specimen well (S) of the test device.
- Allow 2 hanging drops of fingerstick whole blood to fall into the specimen well (S) of the test device, or move the patient's finger so that the hanging drop touches the specimen well (S). Avoid touching the finger directly to the specimen well (S).
- · Separate serum or plasma from blood as soon as possible to avoid hemolysis. Use only clear, non-hemolyzed specimens.
- Testing should be performed immediately after specimen collection. Do not leave the specimens at room temperature for prolonged periods. Serum and plasma specimens may be stored at 2-8°C for up to 3 days. For long-term storage, specimens should be kept below -20°C. Whole blood collected by venipuncture should be stored at 2-8°C if the test is to be run within 2 days of collection. Do not freeze whole blood specimens. Whole blood collected by fingerstick should be tested immediately.
- Bring specimens to room temperature prior to testing. Frozen specimens must be completely thawed and mixed well prior to testing. Specimens should not be frozen and thawed repeatedly.
- If specimens are to be shipped, they should be packed in compliance with local regulations covering the transportation of etiologic agents.

MATERIALS

Materials Provided

- · Test Cassettes · Droppers
- Buffer Package insert

Materials Required But Not Provided

- Specimen collection containers Lancets (for fingerstick whole blood only)
- · Centrifuge · Timer

DIRECTIONS FOR USE

Allow the test, specimen and/or controls to reach room temperature (15-30°C) prior to testing.

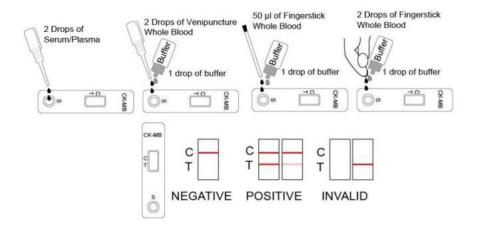
- 1. Bring the pouch to room temperature before opening it. Remove the test device from the sealed pouch and use it as soon as possible. Best results will be obtained if the test is performed immediately after opening the foil pouch.
- 2. Place the test device on a clean and level surface.

For Serum or Plasma specimens: Hold the dropper vertically and transfer 2 drops of serum or plasma (approximately 50 µL) to the specimen well (S) of the test device, then start the timer. See illustration below.

For Venipuncture Whole Blood specimens: Hold the dropper vertically and transfer 2 drops of venipuncture whole blood (approximately $50~\mu$ L) to the specimen well (S) of the test device, then add 1 drop of buffer (approximately 40 μ L) and start the timer. See illustration below.

For Fingerstick Whole Blood specimens: Allow 2 hanging drops of fingerstick whole blood specimen (approximately 50 μL) to fall into the center of the specimen well (S) on the test device, then add 1 drop of buffer (approximately 40 μL) and start the timer. See illustration below.

3. Wait for the colored line(s) to appear. Read results at 10 minutes. Do not interpret results after 20 minutes.



INTERPRETATION OF RESULTS

(Please refer to the illustration above)

POSITIVE: Two distinct colored lines appear. One colored line should be in the control line region (C) and another apparent colored line should be in the test line region (T).

NEGATIVE: One colored line appears in the control line region (C). No line appears in the test line region (T).

INVALID: Control line (C) fails to appear. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test with a new test. If the problem persists, discontinue using the test kit immediately and contact your local distributor.

QUALITY CONTROL

An internal procedural control is included in the test. A colored line appearing in the control line region (C) is an internal procedural control. It confirms sufficient specimen volume, adequate membrane wicking and correct procedural technique. Control standards are not supplied with this kit; however it is recommended that positive and negative controls be tested as a good laboratory practice to confirm the test procedure and to verify proper test performance.

LIMITATIONS

- 1. The CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma) is for in vitro diagnostic use only. This test should be used for the detection of CK-MB in whole blood, serum or plasma specimens only. Neither the quantitative value nor the rate of increase in CK-MB can be determined by this qualitative test.
- 2. The CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma) will only indicate the qualitative level of CK-MB in the specimen and should not be used as the sole criteria for the diagnosis of myocardial infarction.
- 3. The CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma) can detect no less than 5 ng/mL of CK-MB in specimens. A negative result at any time does not preclude the possibility of myocardial infarction.
- 4. As with all diagnostic tests, all results must be interpreted together with other clinical information available to the
- physician.

 5. Unusually high titers of heterophile antibodies or rheumatoid factor (RF) may affect results. Even if the test results are positive, further clinical evaluation should be considered with other clinical information available to the physician.
- 6. There is a slight possibility that some whole blood specimens with very high viscosity or which have been stored for more than 2 days may not run properly on the test device. Repeat the test with a serum or plasma specimen from the same patient using a new test device.

EXPECTED VALUES

The CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma) has been compared with a leading commercial CK-MB EIA test, demonstrating an overall accuracy of 99.8%.

PERFORMANCE CHARACTERISTICS

Sensitivity and Specificity

The CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma) has been evaluated with a leading commercial CK-MB EIA test using clinical specimens. The results show that the sensitivity of the CK-MB RapidTest Device (Whole Blood/Serum/ Plasma) is 100% and the specificity is 99.8% relative to the leading EIA test.

CK-MB Rapid Test vs. EIA

| Method | | EIA | | Total |
|---------------|----------|----------|----------|---------|
| 3 | Results | Positive | Negative | Results |
| CK-MB | Positive | 54 | 1 | 55 |
| , and a | Negative | 0 | 422 | 422 |
| Total Results | | 54 | 423 | 477 |

Relative Sensitivity: 100% (93.4%-100.0%) * Relative Specificity: 99.8% (98.7%-99.9%)*

Accuracy: 99.8% (98.8%-99.9%)* * 95% Confidence Interval

PRECISION

Intra-Assav

Within-run precision has been determined by using replicates of 10 tests for each of three lots using CK-MB specimen levels at 0 ng/mL, 5 ng/mL, 10 ng/mL, 20 ng/mL and 40 ng/mL. The specimens were correctly identified >99% of the time.

Between-run precision has been determined by 3 independent assays on the same five specimens: 0 ng/mL, 5 ng/mL, 10 ng/mL, 20 ng/mL and 40 ng/mL of CK-MB. Three different lots of the CK-MB Rapid Test Device (Whole Blood/Serum /Plasma) have been tested using these specimens. The specimens were correctly identified >99% of the time.

Cross-Reactivity

Sera containing known amounts of 1,390 ng/mL CK-MM and 1,000 ng/mL CK-BB have been tested . No cross-reactivity was observed, indicating that the CK-MB Rapid Test Device (Whole Blood/Serum/Plasma) has a high degree of specificity for CK-MB.

Interfering Substances

The CK-MB Rapid Test Cassette (Whole Blood/Serum/Plasma) has been tested and no interference was observed in specimens containing 110 mg/mL human albumin, 6 mg/mL bilirubin, 10 mg/mL hemoglobin, 5 mg/mL cholesterol and 15 mg/mL triglycerides.

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B20320-03

D-Dimer Rapid Test Cassette (Whole Blood/Plasma)

The D-Dimer Rapid Test Cassette (Whole Blood/Plasma) is a rapid chromatographic immunoassay for the qualitative detection of D-dimer in human whole blood or plasma. It is intended to be used as a screening test and as an aid in the diagnosis of disseminated intravascular coagulation (DIC), deep vein thrombosis (DVT). Any reactive specimen with the D-Dimer Rapid Test Cassette (Whole Blood/Plasma) must be confirmed with alternative testing method(s) and clinical findings.

INTRODUCTION

During blood coagulation process, fibringen is converted to fibrin by the activation of thrombin. The resulting fibrin monomers polymerise to form a soluble gel of non-cross-linked fibrin. This fibrin gel is then converted to cross-linked fibrin by thrombin activated Factor XIII to form an insoluble fibrin clot. Production of plasmin, the major clot-lysing enzyme, is triggered when a fibrin clot is formed. Although fibrinogen and fibrin are both cleaved by the fibrinolytic enzyme plasmin to yield degradation products, only degradation products from cross-linked fibrin contain D-dimer and are called cross-linked fibrin degradation products. Therefore, fibrin derivatives in human blood or plasma containing D-dimer are a specific marker of fibrinolysis.

The D-Dimer Rapid Test Cassette (Whole Blood/Plasma) is a rapid test that qualitative detects the presence of D-dimer in whole blood or plasma specimens at the sensitivity of 500 ng/mL. The test utilizes a combination of monoclonal antibodies to selectively detect elevated levels of D-dimer in whole blood or plasma. At the level of claimed sensitivity, the D-Dimer Rapid Test Cassette (Whole Blood/Plasma) shows no cross-reactivity interference from the related Troponin I, Troponin T, CK-MB, Myoglobin or others at high physiological levels.

PRINCIPLE

The D-Dimer Rapid Test Cassette (Whole Blood/Plasma) is immunochromatographic assay including D-Dimer specific monoclonal antibody conjugated to colloidal gold particles, second D-Dimer specific monoclonal antibody on test line and Goat anti-mouse IgG antibody on the control line. When the specimen containing D-Dimer is added to sample pad, it moves to conjugate pad and forms a complex (D-Dimer and antibody-gold conjugate). The complex migrates through a nitrocellulose membrane by capillary action and captured at test line which is second D-Dimer specific monoclonal antibody has been bound. The complex is concentrated at test line and a pink or purple line is showed if the D-Dimer concentration is higher than the clinically established cut-off. Uncaptured gold conjugate continues to flow towards control line which Goat anti-mouse IgG is bound and forms a pink or purple color line, indicating test is working as designed and the result is valid. If the control line does not appear, the test result is not valid.

PRODUCT CONTENTS

The D-Dimer Rapid Test Cassette (Whole Blood/Plasma) containing Anti-D-dimer particles and Anti-D-dimer coated on the membrane.

Desiccant

MATERIAL REQUIRED BUT NOT PROVIDED

5. Package Insert

2. Lancing device for whole blood test

2. Pipette Dropper

STORAGE AND STABILITY

The kit can be stored at room temperature or refrigerated (2-30°C). The test Cassette is stable through the expiration date printed on the sealed pouch. The test Cassette must remain in the sealed pouch until use. DO NOT FREEZE. Do not use beyond the expiration date.

WARNINGS AND PRECAUTIONS

- For professional in vitro diagnostic use only.
- 2. Do not use after the expiration date indicated on the package. Do not use the test if the foil pouch is damaged. Do not reuse tests.
- 3. This kit contains products of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not completely guarantee the absence of transmissible pathogenic agents. It is therefore recommended that these products be treated as potentially infectious, and handled by observing usual safety precautions (e.g., do not ingest or inhale).
- 4. Read the entire procedure carefully prior to testing.
- 5. Do not eat, drink or smoke in any area where specimens and kits are handled.
- 6. Handle all specimens as if they contain infectious agents. Observe established precautions against microbiological hazards throughout the procedure and follow standard procedures for the proper disposal of specimens. Wear protective clothing such as laboratory coats, disposable gloves and eve protection when specimens are assayed.
- 7. Do not interchange or mix reagents from different lots. Do not mix solution bottle caps.
- 8. Humidity and temperature can adversely affect results.

SPECIMEN COLLECTION AND PREPARATION

- 1. The D-Dimer Rapid Test Cassette (Whole Blood/Plasma) is intended for use with human whole blood or plasma specimens only.
- 2. Only clear, non-hemolyzed specimens are recommended for use with this test. Whole blood or Plasma should be separated as soon as
- 3. Perform testing immediately after specimen collection. Do not leave specimens at room temperature for prolonged periods. Plasma specimens may be stored at 2-8°C for up to 3 days. For long term storage, specimens should be kept below -20°C. Whole blood collected by venipuncture should be stored at 2-8°C if the test is to be run within 2 days of collection. Do not freeze whole blood specimens. Whole blood collected by fingerstick should be tested immediately.
- 4. Containers containing anticoagulants such as EDTA, citrate, or heparin should be used for whole blood storage.
- 5. Bring specimens to room temperature prior to testing. Frozen specimens must be completely thawed and mixed well prior to testing. Avoid repeated freezing and thawing of specimens.

- 6. If specimens are to be shipped, pack them in compliance with all applicable regulations for transportation of etiological agents.
- Icteric, lipemic, hemolysed, heat treated and contaminated specimens may cause erroneous results.

TEST PROCEDURE

Bring tests, specimens, reagents and/or controls to room temperature (15-30°C) prior to testing.

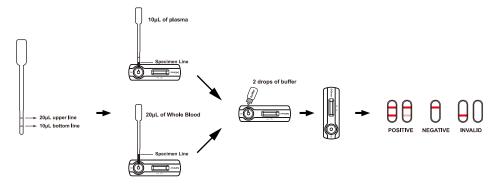
- 1. Remove the test cassette from the foil pouch and use it as soon as possible. Best results will be obtained if the assay is performed within
- 2. Place the test cassette on a clean and level surface.

For Whole Blood Specimen: With the 10/20µL mini plastic dropper provided, draw the whole blood specimen to the upper scale line as showed in the following image and then transfer drawn whole blood into the sample well (S) of the test device, then add 2 drops of buffer (approximately 80µL) and start the timer. See illustration below.

For Plasma Specimen: With the 10/20μL mini plastic dropper provided, draw the plasma specimen to the bottom scale line as showed in the following image and then transfer drawn plasma into the sample well (S) of the test device. Then add 2 drops of buffer (approximately 80uL) and start the timer. See illustration below.

Note: Practice a few times prior to testing if you are not familiar with the mini dropper. For better precision, transfer specimen by pipette capable to deliver 10 and 20µL of volume.

- 3. As the test begins to work, color will migrate across the membrane.
- 4. Wait for the colored band(s) to appear. The result should be read in 10 minutes. Do not interpret the result after 15 minutes.



(Please refer to the illustration above)

Positive: Two lines appear. One colored line should be in the control line region (C) and another apparent colored line should be in the test line

Negative: One colored line appears in the control line region(C). No line appears in the test line region (T).

Invalid: Control line fails to appear. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test with a new test Cassette. If the problem persists, discontinue using the test kit immediately and contact your local distributor.

QUALITY CONTROL

A procedural control is included in the test. A red line appearing in the control region (C) is the internal procedural control. It confirms sufficient specimen volume and correct procedural technique. Control standards are not supplied with this test. However, it is recommended that positive and negative controls are sourced from a local competent authority and tested as a good laboratory practice, to confirm the test procedure and verify the test performance.

- 1. The D-Dimer Rapid Test Cassette (Whole Blood/Plasma) is for in vitro diagnostic use only. This test should be used for the detection of D-dimer in whole blood or plasma specimens only. Neither the quantitative value nor the rate of increase in D-dimer can be determined by
- The D-Dimer Rapid Test Cassette (Whole Blood/Plasma) will only indicate the qualitative level of D-dimer in the specimen and should not be used as the sole criteria for the diagnosis of Disseminated Intravascular Coagulopathy (DIC), Deep Vein Thrombosis (DVT) and Pulmonary Embolism (PE).
- During the process of serum is formed, also fibrinogen is converted to fibrin by the activation of thrombin and it also can be detected by D-dimer antibody. So serum specimen can't be used for D-Dimer Rapid Test Device (Whole Blood/Plasma).
- The D-Dimer Rapid Test Cassette (Whole Blood/Plasma) cannot detect less than 500 ng/mL D-dimer in specimens. A negative result at any time does not preclude the possibility of Disseminated Intravascular Coagulopathy (DIC), Deep Vein Thrombosis (DVT) and Pulmonary Embolism (PE)
- False negative readings can occur if the sample is taken either too early after thrombus formation, if testing is delayed for several days or if the sample was take too later after the occurrence of thromboembolic infarction, because the D-dimer concentration may decrease to normal values after one week already. Additionally, a treatment with anti-coagulants prior sample collection can render the test negative because it prevents thrombus extension.
- 6. As with all diagnostic tests, all results must be interpreted together with other clinical information available to the physician. E.g. use "Wells score" for DVT resp. PE, Ultrasound, quantitative laboratory D-Dimer results etc.
- Some specimens containing unusually high titers of heterophile antibodies or rheumatoid factor (RF) may affect expected results. Even if the test results are positive, further clinical evaluation should be considered with other clinical information available to the physician

PERFORMANCE CHARACTERISTICS

The D-Dimer Rapid Test Cassette (Whole Blood/Plasma) has been evaluated with a leading commercial D-dimer EIA test using clinical specimens. The results show that the sensitivity of the D-Dimer Rapid Test Cassette (Whole Blood/Plasma) is 98.6% and the specificity is 98.6% relative to the leading EIA test.

| Method | | EIA | | Total Results |
|--------------------------------|----------|----------|----------|---------------|
| D-Dimer Rapid Test Cassette | Results | Positive | Negative | |
| | Positive | 71 | 3 | 73 |
| | Negative | 1 | 211 | 212 |
| Total Results | | 72 | 214 | 286 |

Relative Sensitivity: 98.6% Relative Specificity: 98.6% Accuracy: 98.6%

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