

STATEMENT

We, ACON Laboratories, Inc., having a registered office at 5850 Oberlin Drive #340, San Diego, CA 92121 authorize SRL Sanmedico having a registered office at A. Corobceanu street 7A, apt. 9, Chisinău, MD-2012, Moldova

to register, notify, renew or modify the registration of medical devices on the territory of the Republic of Moldova.

Date: March 18, 2024

Signature:

Qiyi Xie, Md, MPH V.P. of Regulatory & Clinical Affairs ACON Laboratories, Inc.







Certificate

No. Q5 104507 0001 Rev. 03

Holder of Certificate:

ACON Laboratories, Inc.

5850 Oberlin Drive, #340 San Diego CA 92121 USA

Certification Mark:



Scope of Certificate:

Design and Development, 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

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

Report No.:

SH22743A01

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

Date,

2022-09-15

Christoph Dicks 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.









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:V1104507

Report no.:

SH22743EXT01

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

Date, 2022-05-04

Christoph Dicks Head of Certification/Notified Body







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), 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

Page 2 of 3 TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123







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-161). Go-Keto Blood Ketone Test Strips (OGS-161), Go-Keto Blood Glucose Test Strips, On Call Extra GM Blood Glucose Monitoring System(OGM-191). 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

Facility(ies):

ACON Laboratories, Inc. 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

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.



5850 Oberlin Drive #340-San Diego, CA 92121, USA - Tel: (858) 875-8000 - Fax: (858) 875-8099 E-mail: info@aconlabs.com



10125 Mesa Rim Road. • San Diego, CA 92121 • USA Tel: (858) 875-8000 • Fax: (858) 875-8099 • E-mail: info@acontabs.com

November 11th 2016

CERTIFICATION LETTER

This letter is to certify that, Vitalie Goreacii, employed by Sanmedico SRL located at: Republic of Moldova, city Chisinau, str. Petricani 88/1 of. 10, MD-2059, have received all required training and is enabled and authorized to provide services with installation, commissioning, and maintenance to the products listed below:

Mission® U120 Urine Analyzer Mission® U120 Ultra Urine Analyzer Mission® U500 Urine Analyzer Mission® PT/INR Coagulation Monitoring System Mission® Cholesterol Monitoring System Mission® Ultra Cholesterol Monitoring System Mission® HB Hemoglobin Testing System Mission® Plus HB Hemoglobin Testing System OnCall® Glucose Meter

For further questions or inquiries regarding this matter, please refer to the contact information below.

Sincerely

Jassy Alvarenga International Account Manager ACON Laboratories, Incs. A. jalvarenga@aconlabs.com +1 858 875 8085

Mission[®] Urinalysis Reagent Strips and Urine Analyzers



Obtain reliable and cost-effective results with Mission[®] Urinalysis Reagent Strips and Urine Analyzers!

- Accurate
- Reliable
- Convenient



Urinalysis Reagent Strips



Simple and Accurate

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

Flexible

- 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



Step 1: Immerse strip into urine



Step 2: Remove excess urine



Step 3: Obtain results by analyzer or visual reading

	N. C. C.	Туре о	of Strip*		Barret	Read	ing Me	thod	Analyzer-Read	Parameters															
No.	No. of Parameters	For Visual Reading	For Analyzer Reading (U120/U500)	Canister*	Pouch Packaging [▲]	Visual	U120	U500	Strips: Standard (S) or Additional (A)	ASC	GLU	BIL	кет	sg	BLO	рH	PRO	URO	NIT	LEU	ALB	CRE			
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♦Type of Strip: Visual Strip Size

1-6 Parameters: 5 mm x 80 mm; 7-11 Parameters: 5 mm x 108 mm; 12-13 Parameters: 5 mm x 121 mm

Also available in canisters of 25, 50 and 150 strips 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

U120/U500 Strip Size 1-11 Parameters: 5 mm x 108 mm:

"E" means extended strip length for 1-6 Parameters

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

F

U120 Urine Analyzer





- 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 Reliable

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

- 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 • OC 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	Specifi	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/OFF			
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 mm)				
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 Reader or Data Transfer 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), Inter EAN 8, EAN 13	leaved 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.	Components		Components		Carton Dimensions (L x W x H) & Weight	Number of Kits/Carton	
LI120 Urine Analyzer	uuu aas/t	1 Urine Analyzer		2 Fuses (2.0A) 1 Power Cord	42.0 cm x 41.5 cm x 3	1 cm; 5.0 kg	31	
0 120 Office Analyzer	0111-101**	2 Printer Paper Rolls 1 Quick Start Guide 16.4" x 16.2" x 12.1"; 176.4 oz		1"; 176.4 oz				
U120 Urine Analyzer	U111-111à	1 Urine Analyzer 1 Strip holder		2 Fuses (2.0A) 1 Power Cord	44.5cm x 44.5cm x 4	0.0cm; 5.5 kg		
with Barcode Reader		2 Printer Paper Rolls 1 Quick Start Guide (RS232C) 1 Barcode Reader (RS232C) 1 Instruction Manual 17.5" x 17.5" x 15.7"; 194 oz		7"; 194 oz				
Barcode Reader	U221-111√ [†]	1 Barcode Reader (RS232C)		1 Serial Splitter Cable (RS232C)	23.6 cm x 10.8 cm x 7.8 cm; 0.482 kg 63.0 cm x 37.0 cm x 30.0 cm; 12 9.3" x 4.3" x 3.1"; 17.0 oz 24.8" x 14.6" x 11.8"; 423.3 c		22	
Printer Paper Rolls	11101 101	4 Printer Paper Rolls	Thermal Paper (0.06 m x 20 m): 200 results/roll		12.0 cm x 12.0 cm x 6.5 cm; 0.36kg 4.7" x 4.7" x 2.6"; 12.7oz	63.0 cm x 37.0 cm x 30.0 cm; 19.4 kg 24.8" x 14.6" x 11.8"; 684.3 oz	50 50	
	0121-101	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		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 fouch screen LCD offers simple menu navigation • Uniquely designed strip platform/waste tray unit for easy one-step cleaning

Convenient

- 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 Stores 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 RS232C port for easy data transfer to an external computer or LIS • Optional Barcode Reader to record patient ID Unique Lockout Functions ^{Coming Scont}

- 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	Specifications				
Analyzer Type	Semi-Automatic				
Methodology	Reflectance Photometry				
Detection	Photosensitive Diode				
Throughput	500 tests/hour (Measuring cycle: 7 seconds/test)				
Test Modes	Routine, STAT and QC				
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)				
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 Reader or Data Transfer 25 Pin Parallel Port for External Printer				
Capabilities	Internal Thermal Printer (included) RS232C Barcode Reader (optional) Optional External Printer (not included) RS232C Data Transfer Cable (optional)				
Major Readable Barcodes	Code 128, Code 39, Codabar (NW-7), Interleaved 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 19.5 cm (14.4" x 11.1" x 7.7")				
Display Dimensions (L x W)	11.5 cm x 9.0 cm (4.5" x 3.5")				
Weight	4.0 kg (8.8 lbs)				

Ordering Information

Product Name	Catalog No.	Co	Components		Kit Box Dimensions (L x W x H) & Weight	Carton Dimensions (L x W x H) & Weight	Number of Kits/Carton	
		1 Urine Analyzer 1 Strip Platform/Wast	e Trav	2 Fuses (2.0A)	51.0 cm x 42.0 cm x 3	8.5 cm; 7 kg		
0500 Urine Analyzer	U211-101	2 Printer Paper Rolls		1 Instruction Manual	20.1" X 16.5" x 15.	1		
U500 Urine Analyzer	11211-1111	1 Urine Analyzer 1 Strip Platform/Wast	e Tray	2 Fuses (2.0A) 1 Power Cord	55.0 cm x 55.0 cm x	55.0cm; 9.2 kg	1	
with Barcode Reader	0211111	2 Printer Paper Roll 1 Barcode Reader (I	s RS232C)	1 Serial Splitter Cable (RS232C) 1 Instruction Manual	21.7" x 21.7" x 21.7"; 324.5 oz			
Barcode Reader	U221-111 ^à	1 Barcode Reader (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	
Drinter Depor Polla	1404 404	4 Printer Paper Rolls	Thermal Paper (0.06 m x 20 m): 200 results/roll		12.0 cm x 12.0 cm x 6.5 cm; 0.360 kg 4.7" x 4.7" x 2.6"; 12.7 oz	63.0 cm x 37.0 cm x 30.0 cm; 19.4 kg 24.8" x 14.6" x 11.8"; 684.3 oz	50	
r miler r aper rions	0121-101	41 miler 1 uper reals	Sticker Pa	aper (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	z	
U500 Data Transfer Kit	U221-131√	1 Data Transfer Cable	e (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



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



		Package Insert				
REF U031-011 REF U031-021 REF U031-031 REF U031-041	REF U031-051 REF U031-061 REF U031-071 REF U031-081	REF U031-091 REF U031-101 REF U031-111	English			

For rapid detection of multiple analytes in human urine.

For in vitro diagnostic use only

INTENDED USE

The Urinalysis Reagent Strips (Urine) are firm plastic strips onto which several separate reagent areas are affixed. The test is for the qualitative and semi-quantitative detection of one or more of the following analytes in urine: Ascorbic acid, Glucose, Bilirubin, Ketone (Acetoacetic acid), Specific Gravity, Blood, pH, Protein, Urobilinogen, Nitrite and Leukocytes.

SUMMARY

Urine undergoes many changes during states of disease or body dysfunction before blood composition is altered to a significant extent. Urinalysis is a useful procedure as an indicator of health or disease, and as such, is a part of routine health screening. The Urinalysis Reagent Strips (Urine) can be used in general evaluation of health, and aids in the diagnosis and monitoring of metabolic or systemic diseases that affect kidney function, endocrine disorders and diseases or disorders of the urinary tract.

PRINCIPLE AND EXPECTED VALUES

Ascorbic acid: This test involves decolorization of Tillmann's reagent. The presence of ascorbic acid causes the color of the test field to change from blue-green to orange. Patients with adequate diet may excrete 2-10 mg/dL daily. After ingesting large amounts of ascorbic acid, levels can be around 200 mg/dL.

Glucose: This test is based on the enzymatic reaction that occurs between glucose oxidase, peroxidase and chromogen. Glucose is first oxidized to produce gluconic acid and hydrogen peroxide in the presence of glucose oxidase. The hydrogen peroxide reacts with potassium iodide chromogen in the presence of peroxidase. The extent to which the chromogen is oxidized determines the color which is produced, ranging from green to brown. Glucose should not be detected in normal urine. Small amounts of glucose may be excreted by the kidney.³ Glucose concentrations as low as 100 mg/dL may be considered abnormal if results are consistent.

Bilirubin: This test is based on azo-coupling reaction of bilirubin with diazotized dichloroaniline in a strongly acidic medium. Varying bilirubin levels will produce a pinkish-tan color proportional to its concentration in urine. In normal urine, no bilirubin is detectable by even the most sensitive methods. Even trace amounts of bilirubin require further investigation. Atypical results (colors different from the negative or positive color blocks shown on the color chart) may indicate that bilirubin-derived bile pigments are present in the urine specimen, and are possibly masking the bilirubin reaction.

Ketone: This test is based on ketones reacting with nitroprusside and acetoacetic acid to produce a color change ranging from light pink for negative results to a darker pink or purple color for positive results. Ketones are normally not present in urine. Detectable ketone levels may occur in urine during physiological stress conditions such as fasting, pregnancy and frequent strenuous exercise.⁴⁶ In starvation diets, or in other abnormal carbohydrate metabolism situations, ketones appear in the urine in excessively high concentration before serum ketones are elevated.

Specific Gravity: This test is based on the apparent pKa change of certain pretreated polyelectrolytes in relation to jonic concentration. In the presence of an indicator, colors range from deep blue-green in urine of low ionic concentration to green and yellow-green in urine of increasing ionic concentration. Randomly collected urine may vary in specific gravity from 1.003-1.035.8 Twenty-four hour urine from healthy adults with normal diets and fluid intake will have a specific gravity of 1.016-1.022.8 In cases of severe renal damage. the specific gravity is fixed at 1.010, the value of the glomerular filtrate.

Blood: This test is based on the peroxidase-like activity of hemoglobin which catalyzes the reaction of diisopropylbenzene dihydroperoxide and 3,3',5,5'-tetramethylbenzidine. The resulting color ranges from orange to green to dark blue. Any green spots or green color development on the reagent area within 60 seconds is significant and the urine specimen should be examined further. Blood is often, but not invariably, found in the urine of menstruating females. The significance of a trace reading varies among patients and clinical judgment is required in these specimens.

pH: This test is based on a double indicator system which gives a broad range of colors covering the entire urinary pH range. Colors range from orange to yellow and green to blue. The expected range for normal urine specimens from newborns is pH 5-7.9 The expected range for other normal urine specimens is pH 4.5-8, with an average result of pH 6.

Protein: This reaction is based on the phenomenon known as the "protein error" of pH indicators where an indicator that is highly buffered will change color in the presence of proteins (anions) as the indicator releases hydrogen ions to the protein. At a constant pH, the development of any green color is due to the presence of protein. Colors range from yellow to yellow-green for negative results and green to green-blue for positive results. 1-14 mg/dL of protein may be excreted by a normal kidney.¹⁰ A color matching any block greater than trace indicates significant proteinuria. Clinical judgment is required to evaluate the significance of trace results.

Urobilinogen: This test is based on a modified Ehrlich reaction between p-diethylaminobenzaldehyde and urobilinogen in strongly acidic medium to produce a pink color. Urobilinogen is one of the major compounds produced in heme synthesis and is a normal substance in urine. The expected range for normal urine with this test is 0.2-1.0 mg/dL (3.5-17 µmol/L).8 A result of 2.0 mg/dL (35 µmol/L) may be of clinical significance, and the patient specimen should be further evaluated.

Nitrite: This test depends upon the conversion of nitrate to nitrite by the action of Gram negative bacteria in the urine. In an acidic medium, nitrite in the urine reacts with p-arsanilic acid to form a diazonium compound. The diazonium compound in turn couples with 1 N-(1-naphthyl) ethylenediamine to produce a pink color. Nitrite is not detectable in normal urine.9 The nitrite area will be positive in some cases of infection, depending on how long the urine specimens were retained in the bladder prior to collection. Retrieval of positive cases with the nitrite test ranges from as low as 40% in cases where little bladder incubation occurred, to as high as approximately 80% in cases where bladder incubation took place for at least 4 hours.

Leukocytes: This test reveals the presence of granulocyte esterases. The esterases cleave a derivatized pyrazole amino acid ester to liberate derivatized hydroxy pyrazole. This pyrazole then reacts with a diazonium salt to produce a beige-pink to purple color. Normal urine specimens generally yield negative results. Trace results may be of questionable clinical significance. When trace results occur, it is recommended to retest using a fresh specimen from the same patient. Repeated trace and positive results are of clinical significance

REAGENTS AND PERFORMANCE CHARACTERISTICS

Based on the dry weight at the time of impregnation, the concentrations given may vary within manufacturing tolerances. The following table below indicates read times and performance characteristics for each parameter.

Reagent	Read Time	Composition	Description
Ascorbic Acid (ASC)	30 seconds	2,6-dichlorophenolindophenol; buffer and non-reactive ingredients	Detects ascorbic acid as low as 5-10 mg/dL (0.28-0.56 mmol/L).
Glucose (GLU)	30 seconds	glucose oxidase; peroxidase; potassium iodide; buffer; non-reactive ingredients	Detects glucose as low as 50-100 mg/dL (2.5-5 mmol/L).
Bilirubin (BIL)	30 seconds	2, 4-dichloroaniline diazonium salt; buffer and non-reactive ingredients	Detects bilirubin as low as 0.4-1.0 mg/dL (6.8-17 μmol/L).
Ketone (KET)	40 seconds	sodium nitroprusside; buffer	Detects acetoacetic acid as low as 2.5-5 mg/dL (0.25-0.5 mmol/L).
Specific Gravity (SG)	45 seconds	bromthymol blue indicator; buffer and non-reactive ingredients; poly (methyl vinyl ether/maleic anhydride); sodium hydroxide	Determines urine specific gravity between 1.000 and 1.030. Results correlate with values obtained by refractive index method within \pm 0.005.
Blood (BLO)	60 seconds	3,3',5,5'-tetramethylbenzidine (TMB); diisopropylbenzene dihydroperoxide; buffer and non-reactive ingredients	Detects free hemoglobin as low as 0.018-0.060 mg/dL or 5-10 Ery/ μ L in urine specimens with ascorbic acid content of < 50 mg/dL.
рН	60 seconds	methyl red sodium salt; bromthymol blue; non-reactive ingredients	Permits the quantitative differentiation of pH values within the range of 5-9.
Protein (PRO)	60 seconds	tetrabromophenol blue; buffer and non-reactive ingredients	Detects albumin as low as 7.5-15 mg/dL (0.075-0.15 g/L).
Urobilinogen (URO)	60 seconds	p-diethylaminobenzaldehyde; buffer and non-reactive ingredients	Detects urobilinogen as low as 0.2-1.0 mg/dL (3.5-17 µmol/L).
Nitrite (NIT)	60 seconds	p-arsanilic acid; N-(1-naphthyl) ethylenediamine; non-reactive ingredients	Detects sodium nitrite as low as 0.05-0.1 mg/dL in urine with a low specific gravity and less than 30 mg/dL ascorbic acid.
Leukocytes (LEU)	120 seconds	derivatized pyrrole amino acid ester; diazonium salt; buffer; non-reactive ingredients	Detects leukocytes as low as 9-15 white blood cells Leu/µL in clinical urine.

The performance characteristics of the Urinalysis Reagent Strips (Urine) have been determined in both laboratory and clinical tests. Parameters of importance to the user are sensitivity, specificity, accuracy and precision. Generally, this test has been developed to be specific for the parameters to be measured with the exceptions of the interferences listed. Please refer to the Limitations section in this package insert.

Interpretation of visual results is dependent on several factors: the variability of color perception, the presence or absence of inhibitory factors, and the lighting conditions when the strip is read. Each color block on the chart corresponds to a range of analyte concentrations.

PRECAUTIONS

- For in vitro diagnostic use only. Do not use after the expiration date.
- The strip should remain in the closed canister until use. Do not touch the reagent areas of the strip.
- Discard any discolored strips that may have deteriorated
- All specimens should be considered potentially hazardous and handled in the same
- manner as an infectious agent · The used strip should be discarded according to local regulations after testing.

STORAGE AND STABILITY

Store as packaged in the closed canister either at room temperature or refrigerated (2-30°C). Keep out of direct sunlight. The strip is stable through the expiration date printed on the canister label. Do not remove the desiccant. Remove only enough strips for immediate use. Replace cap immediately and tightly. DO NOT FREEZE. Do not use beyond the expiration date

Note: Once the canister has been opened, the remaining strips are stable for up to 3 months. Stability may be reduced in high humidity conditions

SPECIMEN COLLECTION AND PREPARATION

A urine specimen must be collected in a clean and dry container and tested as soon as possible. Do not centrifuge. The use of urine preservatives is not recommended. If testing cannot be done within an hour after voiding, refrigerate the specimen immediately and let it return to room temperature before testing.

Prolonged storage of unpreserved urine at room temperature may result in microbial proliferation with resultant changes in pH. A shift to alkaline pH may cause false positive results with the protein test area. Urine containing glucose may decrease in pH as organisms metabolize the glucose.

Contamination of the urine specimen with skin cleansers containing chlorhexidine may affect protein (and to a lesser extent, specific gravity and bilirubin) test results.

MATERIALS						
Materials Provided						
 Package insert 						
Materials Required But Not Provided						

Specimen collection container Timer DIRECTIONS FOR US

Strips

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

Remove the strip from the closed canister and use it as soon as possible. Immediately close the canister tightly after removing the required number of strip(s). Completely immerse the reagent areas of the strip in fresh, well-mixed urine and immediately remove the strip to avoid dissolving the reagents. See illustration 1 below.

2. While removing the strip from the urine, run the edge of the strip against the rim of the urine container to remove excess urine. Hold the strip in a horizontal position and bring the edge of the strip into contact with an absorbent material (e.g. a paper towel) to avoid mixing chemicals from adjacent reagent areas and/or soiling hands with urine. See illustration 2 below.

3. Compare the reagent areas to the corresponding color blocks on the canister label at the specified times. Hold the strip close to the color blocks and match carefully. See illustration 3 below

Note: Results may be read up to 2 minutes after the specified times.



Results are obtained by direct comparison of the color blocks printed on the canister label. The color blocks represent nominal values; actual values will vary close to the nominal values. In the event of unexpected or questionable results, the following steps are recommended: confirm that the strips have been tested within the expiration date printed on the canister label, compare results with known positive and negative controls and repeat the test using a new strip. If the problem persists, discontinue using the strip immediately and contact your local distributor.

OUALITY CONTROL

For best results, performance of reagent strips should be confirmed by testing known positive and negative specimens/controls whenever a new test is performed, or whenever a new canister is first opened. Each laboratory should establish its own goals for adequate standards of performance

LIMITATIONS

Note: The Urinalysis Reagent Strips (Urine) may be affected by substances that cause abnormal urine color such as drugs containing azo dyes (e.g. Pyridium[®], Azo Gantrisin[®] Azo Gantanol[®]), nitrofurantoin (Microdantin[®]), Furadantin[®]), and riboflavin.⁸ The color development on the test pad may be masked or a color reaction may be produced that could be interpreted as false results.

Ascorbic acid: No interference is known

Glucose: The reagent area does not react with lactose, galactose, fructose or other metabolic substances, nor with reducing metabolites of drugs (e.g. salicylates and nalidixic acid). Sensitivity may be decreased in specimens with high specific gravity (>1.025) and with ascorbic acid concentrations of ≥ 25 mg/dL. High ketone levels \geq 100 mg/dL may cause false negative results for specimens containing a small amount of glucose (50-100 mg/dL)

Bilirubin: Bilirubin is absent in normal urine, so any positive result, including a trace positive, indicates an underlying pathological condition and requires further investigation. Reactions may occur with urine containing large doses of chlorpromazine or rifampen that might be mistaken for positive bilirubin.⁹ The presence of bilirubin-derived bile pigments may mask the bilirubin reaction. This phenomenon is characterized by color development on the test patch that does not correlate with the colors on the color chart. Large concentrations of ascorbic acid may decrease sensitivity. Ketone: The test does not react with acetone or β-hydroxybutyrate.⁸ Urine specimens of high pigment, and other substances containing sulfhydryl groups may occasionally give reactions up to and including trace (\pm) .⁹

Specific Gravity: Ketoacidosis or protein higher than 300 mg/dL may cause elevated results. Results are not affected by non-ionic urine components such as glucose. If the urine has a pH of 7 or greater, add 0.005 to the specific gravity reading indicated on the color chart

Blood: A uniform blue color indicates the presence of myoglobin, hemoglobin or hemolyzed erythrocytes.⁸ Scattered or compacted blue spots indicate intact erythrocytes. To enhance accuracy, separate color scales are provided for hemoglobin and for erythrocytes. Positive results with this test are often seen with urine from menstruating females. It has been reported that urine of high pH reduces sensitivity, while moderate to

high concentration of ascorbic acid may inhibit color formation. Microbial peroxidase, associated with urinary tract infection, may cause a false positive reaction. The test is slightly more sensitive to free hemoglobin and myoglobin than to intact erythrocytes.

pH: If the procedure is not followed and excess urine remains on the strip, a phenomenon known as "runover" may occur, in which the acid buffer from the protein reagent will run onto the pH area, causing the pH result to appear artificially low. pH readings are not affected by variations in urinary buffer concentration.

Protein: Any green color indicates the presence of protein in the urine. This test is highly sensitive for albumin, and less sensitive to hemoglobin, globulin and mucoprotein.⁸ A negative result does not rule out the presence of these other proteins. False positive results may be obtained with highly buffered or alkaline urine. Contamination of urine specimens with quaternary ammonium compounds or skin cleansers containing chlorhexidine may produce false positive results.8 The urine specimens with high specific gravity may give false negative results.

Urobilinogen: All results lower than 1 mg/dL urobilinogen should be interpreted as normal. A negative result does not at any time preclude the absence of urobilinogen. The reagent area may react with interfering substances known to react with Ehrlich's reagent. such as p-aminosalicylic acid and sulfonamides.⁹ False negative results may be obtained if formalin is present. The test cannot be used to detect porphobilinogen.

Nitrite: The test is specific for nitrite and will not react with any other substance normally excreted in urine. Any degree of uniform pink to red color should be interpreted as a positive result, suggesting the presence of nitrite. Color intensity is not proportional to the number of bacteria present in the urine specimen. Pink spots or pink edges should not be interpreted as a positive result. Comparing the reacted reagent area on a white background may aid in the detection of low nitrite levels, which might otherwise be missed. Ascorbic acid above 30 mg/dL may cause false negatives in urine containing less than 0.05 mg/dL nitrite ions. The sensitivity of this test is reduced for urine specimens with highly buffered alkaline urine or with high specific gravity. A negative result does not at any time preclude the possibility of bacteruria. Negative results may occur in urinary tract infections from organisms that do not contain reductase to convert nitrate to nitrite: when urine has not been retained in the bladder for a sufficient length of time (at least 4 hours) for reduction of nitrate to nitrite to occur when receiving antibiotic therapy or when dietary nitrate is absent.

Leukocytes: The result should be read between 60-120 seconds to allow for complete color development. The intensity of the color that develops is proportional to the number of leukocytes present in the urine specimen. High specific gravity or elevated glucose concentrations (≥ 2,000 mg/dL) may cause test results to be artificially low. The presence of cephalexin, cephalothin, or high concentrations of oxalic acid may also cause test results to be artificially low. Tetracycline may cause decreased reactivity, and high levels of the drug may cause a false negative reaction. High urinary protein may diminish the intensity of the reaction color. This test will not react with erythrocytes or bacteria common in urine

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Number: 1150310404 Effective date: 2011-03-14



STATEMENT

We, Zhejiang Orient Gene Biotech Co., Ltd , having a registered office at 3787#, East Yangguang Avenue, Dipu Street Anji 313300, Huzhou, Zhejiang, China assign SRL SANMEDICO having a registered office at A. Corobceanu street 7A, apt. 9, Chişinău MD-2012, Moldova, as non-exclusive authorized representative for Orient Gene Brand product in correspondence with the conditions of directive 98/79/EEC.

We declare that the company mentioned above is authorized to register, notify, renew or modify the registration of medical devices on the territory of the Republic of Moldova.









Certificate

No. Q5 092305 0001 Rev. 02

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.02

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Valid from: Valid until: 2024-03-17 2027-03-16

Date,

2024-03-01

Christoph Dicks Head of Certification/Notified Body





Certificate

No. Q5 092305 0001 Rev. 02

Applied Standard(s):

ISO 13485:2016 (EN ISO 13485:2016/AC:2018, EN ISO 13485:2016/A11:2021) Medical devices - Quality management systems -Requirements for regulatory purposes

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



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



CE-DOC-OG038 Version 2.0

EC Declaration of Conformity

In accordance with Directive 98/79/EC

Legal Manufacturer:	Zhejiang Orient Gene Biotech Co., Ltd
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)

Troponin I Rapid Test Cassette (Whole Blood/Serum/Plasma)	GDTRO-402a
Troponin I Rapid Test Cassette (Whole Blood/Serum/Plasma)	GDTRO-402b

Classification: Conformity assessment route:

Other 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: August 11, 2020

Type Pay.

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-OG048 CE 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

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

INTENDED USE

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, fibrinogen 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.

MATERIALS SUPPLIED

25 Sealed pouches each containing a test cassette, a pipette dropper and a desiccant

1 Buffer, 4.0 mL 1 Package insert

MATERIAL REQUIRED BUT NOT PROVIDED

Timer Lancing device for whole blood test

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

- 1. 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 eye 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.
- Only clear, non-hemolyzed specimens are recommended for use with this test. Whole blood or Plasma should be separated as soon as possible to avoid hemolysis.
- 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 fi 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.
- 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.
- 7. 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 one hour.
- 2. Place the test cassette on a clean and level surface.

CE

For Whole Blood Specimen: With the $10/20\mu$ L 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 80μ L) and start the timer. See illustration below.

For Plasma Specimen: With the $10/20\mu$ L 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 80μ L) 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.



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 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.

LIMITATIONS

- 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 this qualitative test.
- 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).
- 4. 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).
- 5. 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.
- 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.
- 7. 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

1. Sensitivity and Specificity

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	EI	Total Damilta		
	Results	Positive	Negative	Total Results
D-Dimer Rapid Test	Positive	71	3	74
Cassette	Negative	1	211	212
Total Results	72	214	286	

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

2. Precision

Within-run precision has been determined by using 15 replicates of below five specimens: D-dimer specimen levels at 0 ng/mL, 500 ng/mL, 1,000 ng/mL and 3,000 ng/mL. The specimens were correctly identified at the prescribed reading time.

3. Inter-Assay

Between-run precision has been determined by 3 independent assays on the same five specimens: 0 ng/mL, 500 ng/mL, 1,000ng/mL, 1,500 ng/mL and 3,000 ng/mL of D-dimer. Three different lots of the D-Dimer Rapid Test Cassette (Whole Blood/Plasma) have been tested using these specimens. The specimens were correctly identified at the prescribed reading time.

4. Cross-reactivity

The D-Dimer Rapid Test Cassette (Whole Blood/Plasma) has been tested with HBsAg, HBsAb, HBeAg, HBeAb, HBcAb, anti-syphilis, anti-HIV, anti-H.pylori, IM heterophile antibodies, anti-CMV, anti-Rubella and anti-Toxoplasma positive specimens. The results showed no cross-reactivity.

5. Interfering Substances

The following potentially interfering substances were added to D-dimer negative and positive specimens, repectively.

Substances	Concentration		
Acetaminophen	20 mg/dL		
Caffeine	20 mg/dL		
Acetylsalicylic Acid	20 mg/dL		
Gentisic Acid	20 mg/dL		
Ascorbic Acid	20 mg/dL		
Albumin	10,500 mg/dL		
Creatin	200 mg/dL		
Hemoglobin	1,000 mg/dL		
Bilirubin	1,000 mg/dL		
Oxalic Acid	600 mg/dL		
Cholesterol	800 mg/dL		
Triglycerides	1,600 mg/dL		

None of the substances at the concentration tested interfered in the assay.

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INDEX OF SYMBOLS

ŢŢ.	Consult instructions for use	$\overline{\mathbb{Y}}$	Tests per kit	EC REP	Authorized Representative
IVD	For in vitro diagnostic use only	R	Use by	8	Do not reuse
2°C	Store between 2~30°C	LOT	Lot Number	REF	Catalog#



Zhejiang Orient Gene Biotech Co.,Ltd Address: 3787#, East Yangguang Avenue, Dipu Street, Anji 313300, Huzhou, Zhejiang, China Tel: +86-572-5226111 Fax: +86-572-5226222 Website: www.orientgene.com



Cipalstraat 3, 2440 Geel BELGIUM



Troponin I Troponin I Rapid Test Cassette (Whole Blood/Serum/Plasma) Package Insert

A rapid visual immunoassay for the qualitative presumptive detection of cardiac Troponin I in human whole blood, serum, or plasma specimens. For professional in vitro diagnostic use only.

INTENDED USE

The Troponin I Rapid Test Cassette (Whole Blood/Serum/Plasma) is a rapid visual immunoassay for the qualitative presumptive detection of cardiac Troponin I in human whole blood, serum, or plasma specimens. This kit is intended to be used as an aid in the diagnosis of myocardial infarction (MI).

SUMMARY

Cardiac Troponin I (cTnI) is a protein found in cardiac muscle with a molecular weight of 22.5 kDa.¹ Troponin I is part of a three subunit complex comprising of Troponin T and Troponin C. Along with tropomyosin, this structural complex forms the main component that regulates the calcium sensitive ATPase activity of actomyosin in striated skeletal and cardiac muscle.² After cardiac injury occurs, Troponin I is released into the blood 4-6 hours after the onset of pain. The release pattern of cTnI is similar to CK-MB, but while CK-MB levels return to normal after 72 hours, Troponin I remains elevated for 6-10 days, thus providing for a longer window of detection for cardiac injury. The high specificity of cTnI measurements for the identification of myocardial damage has been demonstrated in conditions such as the perioperative period, after marathon runs, and blunt chest trauma.³ cTnI release has also been documented in cardiac conditions other than acute myocardial infarction (AMI) such as unstable angina, congestive heart failure, and ischemic damage due to coronary artery bypass surgery.⁴ Because of its high specificity and sensitivity in the myocardial tissue, Troponin I has recently become the most preferred biomarker for myocardial infarction.⁵

PRINCIPLE

The Troponin I Rapid Test Cassette (Whole Blood/Serum/Plasma) has been designed to detect cardiac Troponin I through visual interpretation of color development in the strip. The membrane was immobilized with anti-cTnI antibodies on the test region. During the test, the specimen is allowed to react with colored anti-cTnI antibodies colloidal gold conjugates, which were precoated on the sample pad of the test. The mixture then moves on the membrane by a capillary action, and interact with reagents on the membrane. If there were enough cTnI in specimens, a colored band will form at the test region of the membrane.

Presence of this colored band indicates a positive result, while its absence indicates a negative result. Appearance of a colored band at the control region serves as a procedural control. This indicates that proper volume of specimen has been added and membrane wicking has occurred.

PRECAUTIONS

1. For professional in vitro diagnostic use only.

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 standard procedure for proper disposal of specimens

6. Wear protective clothing such as laboratory coats, disposable gloves and eye protection when specimens are assay.

7. Humidity and temperature can adversely affect results.

STORAGE AND STABILITY

All reagents are ready to use as supplied. Store unused test device unopened at $2^{\circ}C-30^{\circ}C$. If stored at $2^{\circ}C-8^{\circ}C$, ensure that the test device is brought to room temperature before opening. The test is not stable out off the expiration date printed on the sealed pouch. Do not freeze the kit or expose the kit over $30^{\circ}C$.

SPECIMEN COLLECTION AND PREPARATION

• The Troponin I Rapid Test Cassette (Whole Blood/Serum/Plasma) is intended only for use with human whole blood, serum, or plasma specimens.

• Only clear, non-hemolyzed specimens are recommended for use with this test.

• Serum or plasma should be separated with soonest possible opportunity to avoid hemolysis.

• Perform the testing immediately after the specimen collection. Do not leave the specimens at room temperature for prolonged periods. Specimens may be stored at 2-8°C for up to 3 days. For long term storage, specimens should be kept below -20°C.

• 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.

• Pack the specimens in compliance with applicable regulations for transportation of etiological agents, in case they need to be shipped.

· Icteric, lipemic, hemolysed, heat treated and contaminated sera may cause erroneous results.

• 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.

Materials Provided

1. Test cassettes 2.Disposable Droppers 3. Package insert

Materials Required But Not Provided

1. Specimen collection containers 2. Centrifuge (for plasma only)

3. Clock or Timer

DIRECTIONS FOR USE

Allow test device, specimen, buffer and/or controls to equilibrate to room

temperature (15-30°C) prior to testing.

1. Remove the test from its sealed pouch, and place it on a clean, level surface. Label the device with patient or control identification. To obtain a best result, the assay should be performed within one hour.

2. Transfer **2-3 drops of serum or plasma** to the specimen well(S) of the device with a disposable pipette provided in the kit, and then start the timer.

OR

Transfer 4 drops of whole blood specimen to the specimen well(S) of the device with a disposable pipette provided in the kit, and then start the timer.

OR

Allow 4 hanging drops of fingerstick whole blood specimen to fall into the center of the specimen well (S) of the device, and then start the timer. Avoid trapping air bubbles in the specimen well (S), and do not drop any solution in observation window. As the test begins to work, you will see color move across the membrane.

2. Wait for the colored band(s) to appear. The result should be read at 15 minutes. Do not interpret the result after 20 minutes.



INTERPRETATION OF RESULTS

(Please refer to the illustration above)

POSITIVE: Two colored bands appear on the membrane. One band appears in the control region (C) and another band appears in the test region (T). **NEGATIVE**: Only one colored band appears in the control region (C). No apparent colored band appears in the test region (T).

INVALID: Control band fails to appear. Results from any test which has not produced a control band at the specified reading time must be discarded.

Please review the procedure and repeat with a new test. If the problem persists, discontinue using the kit immediately and contact your local distributor.

NOTE: Insufficient specimen volume, incorrect operation procedure, or performing expired tests are the most likely reasons for control band failure.

QUALITY CONTROL

Internal procedural controls are included in the test. A colored band appearing in the control region (C) is considered an internal positive procedural control. It confirms sufficient specimen volume and correct procedural technique.

External controls are not supplied with this kit. 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 Troponin I Rapid Test Cassette (Whole Blood/Serum/Plasma) is for professional in vitro diagnostic use, and should be used for the qualitative detection of cardiac Troponin I only. There is no meaning attributed to linen color intensity or width.

2. The Troponin I Rapid Test Cassette (Whole Blood/Serum/Plasma) will only indicate the presence of Troponin I in the specimen and should not be used as the sole criteria for the diagnosis of tuberculosis.

3. If the test result is negative and clinical symptoms persist, additional testing using other clinical methods is recommended. The test cannot detect less than 0.5 ng/mL of cTnI in specimens. Thus, a negative result does not at anytime rule out the existence of Troponin I in blood, because the antibodies may be absent or below the minimum detection level of the test.

4. Like with all diagnostic tests, a confirmed diagnosis should only be made by a physician after all clinical and laboratory findings have been evaluated.

5. 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

rable. Trop	onni i Kapiu i es	SUVS. ELA		-
Method		Troponin I Rap	Total	
		Positive	Negative	Results
EIA	Positive	138	2	140
LIA	Negative	1	315	316
Total Results		130	317	456

 Relative Sensitivity: 98.6% (94.9%-99.8%)*
 Relative Specificity: 99.7% (98.3%-99.9%)*

 Overall Agreement: 99.3% (98.1%-99.9%)*
 *95% Confidence Interval

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