

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.







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:
 2022-09-15

 Valid until:
 2025-09-06

Date. 2022-09-15 Christoph Dicks

Head of Certification/Notified Body





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.

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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

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

Report no.: SH22743EXT01

 Valid from:
 2022-05-04

 Valid until:
 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

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

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-

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-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.



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



Urinalysis Reagent Strips

Simple and Accurate

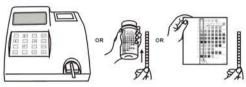
- Analytical sensitivity better than or comparable to market leaders
- · High quality color chart ensures accurate visual reading

- · 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: Immerse strip into 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	ling Me	thod	Analyzer-Read					1	aran	nete	rs						
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	*	*	*	*	*	*	*	*	*	*	*	*	*	
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		4P	4PE			1	1	1			*		t				*		*	*			
		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			*						*						
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U031-021	2	2B	2BE	100	*	1	V	1	A		*		*										
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Visual Strip Size 1-6 Parameters: 5 mm x 80 mm; 7-11 Parameters: 5 mm x 108 mm;

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

12-13 Parameters: 5 mm x 121 mm

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

[▲] 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



Not available in canisters of 150 strips

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
- · 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
 - Prevents testing without passing acceptable of the control of

 - . 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 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 Rea 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	1.6" 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			Kit Box Dimensions (L x W x H) & Weight	Carton Dimensions (L x W x H) & Weight	Number of Kits/Carton	
U120 Urine Analyzer	/ +	1 Urine Analyzer 1 Strip holder 2 Printer Paper Rolls		2 Fuses (2.0A) 1 Power Cord	42.0 cm x 41.5 cm x 3	4		
O 120 Offile Affaiyzer	U111-101 ^à			1 Quick Start Guide 1 Instruction Manual	16.4" x 16.2" x 12,	1"; 176.4 oz	100	
U120 Urine Analyzer	U111-111√ [†]	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	om-m	2 Printer Paper Rolls 1 Barcode Reader (RS232C)		1 Serial Splitter Cable (RS232C) 1 Quick Start Guide 1 Instruction Manual	17.5" x 17.5" x 15.	7"; 194 oz	1	
Barcode Reader	U221-111 ^à	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	J121-101 4 Printer Paper Rolls		aper (0.06 m x 20 m): 200 results/roll	1 2.0 cm x 12.0 cm x 6.5 cm; 0.36kg 63.0 cm x 37.0 cm x 30.0 cm; 4.7" x 4.7" x 2.6": 12.7 oz 24.8" x 14.6" x 11.8"; 684. 12.0 cm x 12.0 cm x 6.5 cm; 0.4 kg 63.0 cm x 37.0 cm x 30.0 cm; 4.7" x 4.7" x 2.6": 14.1 oz 24.8" x 14.6" x 11.8"; 684.3 oz;		50	
rinter raper itons	0121-101			per (0.06 m x 9 m): 100 results/roll			kg	
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	ns				
Analyzer Type	Semi-Automatic				
Methodology	Reflectance Photometry				
Detection	Photosensitive Diode				
Throughput	500 tests/hour (Measuring cycle: 7 secon	ids/test)			
Test Modes	Routine, STAT and QC	atriana (manada manada man			
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 Read 25 Pin Parallel Port for External Printer	ler 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	eaved 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 (Lx 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	mponents		Kit Box Dimensions (L x W x H) & Weight	Carton Dimensions (L x W x H) & Weight	Number of Kits/Carton	
1 Urine Analyzer 2 Fuses (2.0A) 1 Strip Platform/Waste Tray 1 Power Cord		51.0 cm x 42.0 cm x 3						
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	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	02111111	2 Printer Paper Rolls 1 Barcode Reader (RS232C)		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 x 10.8 cm x 7.8 cm; 0.482 kg 63.0 cm x 37.0 cm x 30.0 cm; 1 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			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 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	
Filitter Faper Itolis	U121-101			per (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"; 14.10z	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	145.50	
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



Package Insert

REF U031-011	REF U031-051	REF U031-091	
REF U031-021	REF U031-061	REF U031-101	Б 11.1
REF U031-031	REF U031-071	REF U031-111	English
REF U031-041	REF U031-081		

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 ionic 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). 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. 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 guestionable 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 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 Blood (BLO) 60 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 ± 0.005.		
		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/µL in urine specimens with ascorbic acid content of < 50 mg/dL.		
pН	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 μ mol/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

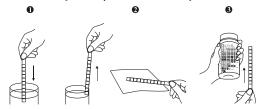
Materials Required But Not Provided

· Specimen collection container Timer

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.
- 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.
- 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.



INTERPRETATION OF RESULTS

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.

QUALITY 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 \geq 25 mg/dL. High ketone levels ≥ 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. 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. Urine specimens of high pigment, and other substances containing sulfhydryl groups may occasionally give reactions up to and including trace (±).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

Blood: A uniform blue color indicates the presence of myoglobin, hemoglobin or hemolyzed erythrocytes. 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. 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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Index of Symbols

[]i	Consult instructions for use	Σ	Tests per kit	Ī	***	Manufacturer
IVD	For in vitro diagnostic use only	\square	Use by	Ī	2	Do not reuse
2°C -30°C	Store between 2-30°C	LOT	Lot Number	Ī	REF	Catalog #
EC REP	Authorized Representative			-		

ACON Laboratories, Inc. 10125 Mesa Rim Road, San Diego, CA 92121, USA



EC REP MDSS GmbH Schiffgraben 41 30175 Hannover, Germany

Number: 1150310404 Effective date: 2011-03-14



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

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.

This Statement letter will be valid from Mar 22th, 2024 to Mar. 21th, 2025.

Zhejiang Orient Gene Biotech Co. Ltd

General Manager:

Date:2024/3/22

地址:浙江省湖州市安吉县递铺镇阳光大道东段 3787 号







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

Report No.: SH2398804

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

Date, 2024-03-01 Christoph Dicks

Head of Certification/Notified Body





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

TÜV®



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



CE-DOC-OG060 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)

Fecal Occult Blood Rapid Test Strip (Feces)	GEFOB-601b
Fecal Occult Blood Rapid Test Cassette (Feces)	GEFOB-602b

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: November 28, 2017

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

Tyle Py.

Fecal Occult Blood Rapid Test Cassette (Feces) (

INTENDED USE

Fecal Occult Blood Rapid Test Cassette (Feces) is a rapid chromatographic immunoassay for the qualitative detection of human occult blood in feces by professional laboratories or physician's offices. It is useful to detect bleeding caused by a number of gastrointestinal disorders, e.g., diverticulitis, colitis, polyps, and colorectal cancer.

Fecal Occult Blood Rapid Test Cassette (Feces) is recommended for use in1) routine physical examinations, 2) hospital monitoring for bleeding in patients, and 3) screening for colorectal cancer or gastrointestinal bleeding from any source.

INTRODUCTION

Most of diseases can cause hidden blood in the stool. In the early stages, gastrointestinal problems such as colon cancer, ulcers, polyps, colitis, diverticulitis, and fissures may not show any visible symptoms, only occult blood. Traditional guaiac-based method lacks sensitivity and specificity, and has diet-restriction prior to the testing.

Fecal Occult Blood Rapid Test Cassette (Feces) is a rapid test to qualitatively detect low levels of fecal occult blood in feces. The test uses double antibod- sandwich assay to selectively detect as low as 50 ng/mL of hemoglobin or 6 µg hemoglobin/g feces. In addition, unlike the quaiac assays, the accuracy of the test is not affected by the diet of the patients.

PRINCIPLE

Fecal Occult Blood Rapid Test Cassette (Feces) is a lateral flow chromatographic immunoassay based on the principle of the double antibody-sandwich technique. The membrane is pre-coated with anti-hemoglobin antibodies on the test line region of the device. During testing, the specimen reacts with the colloidal gold coated withl anti-hemoglobin antibodies. The mixture migrates upward on the membrane chromatographically by capillary action to react with anti-hemoglobin 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 proper volume of specimen has been added and membrane wicking has occurred.

MATERIALS PROVIDED

- 20 Test cassettes
- 20 Specimen collection tubes with buffer
- 1 Package insert

MATERIALS REQUIRED BUT NOT PROVIDED

1. Specimen collection containers

2. Clock or timer

STORAGE AND STABILITY

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

PRECAUTIONS

- 1. For professional in vitro diagnostic use only.
- 2. This package insert must be read completely before performing the test. Failure to follow the insert gives inaccurate test results.
- 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. Do not use specimen with visible blood for the testing.
- 6. Handel all specimens as if they contain infectious agents. Observe established standard procedure for proper disposal of specimens.
- 7. Specimen extraction buffer contains Sodium Azide (0.1%). Avoid contact with skin or eyes. Do not ingest.
- 8. Wear protective clothing such as laboratory coats, disposable gloves and eye protection when specimens are assay.
- 9. Humidity and temperature can adversely affect results.
- 10. Do not perform the test in a room with strong air flow, ie. electric fan or strong airconditioning.

PATIENT PREPARATION

1. A specimen should not be collected from a patient with following conditions that may interfere with the test results:

- Menstrual bleeding
- Bleeding hemorrhoids
- Constipating bleeding
- Urinary bleeding.
- 2. Dietary restrictions are not necessary.
- 3. Alcohol and certain medications such as aspirin, indomethacin, phenylbutazone, reserpine, cortocosteroids, and nonsteroidal anti-inflammatory drugs may cause gastrointestinal irritation and subsequent bleeding, thus gives positive reactions. On the advice of the physician, such substances should be discontinued at least 48 hours prior to testing.

SPECIMEN COLLECTION AND PREPARATION

Consider any materials of human origin as infectious and handle them using standard biosafety procedures.

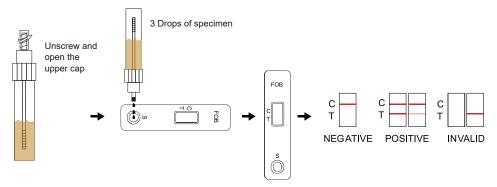
- 1. Collect a random sample of feces in a clean, dry receptacle.
- 2. Unscrew the top of the collection tube and remove the applicator stick.
- 3. Randomly pierce the fecal specimen in at least five (5) different sites.
- 4. Remove excess sample off the shaft and outer grooves. Be sure sample remains on inside grooves.
- 5. Replace the stick in the tube and tighten securely.
- 6. Shake the specimen collection bottle so that there is proper homogenisation of feces in buffer solution.

Note: Specimens prepared in the specimen collection tube may be stored at room temperature (15-30°C) for 3 days maximum, at 2-8°C for 7 days maximum or at -20°C for 3 months maximum if not tested within 1 hour after preparation.

TEST PROCEDURE

Allow the test cassette, specimen, and/or controls to reach 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, flat surface.
- 3. Shake the specimen collection tube several times.
- 4. Hold the specimen collection tube upright and then unscrew and open the upper cap.
- 5. Squeeze 3 drops (\sim 90 μ L) of the sample solution in the sample well of the cassette and start the timer.
- 6. Wait for the colored line(s) to appear. Read results in 5 minutes. Do not interpret the result after 5 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. The test should be repeated using a new cassette. If the problem persists, discontinue using the test kit immediately and contact your local distributor. **NOTE:**

1. The intensity of color in the test region (T) may vary depending on the concentration of analytes present in the specimen. Therefore, any shade of color in the test region should be considered positive. Note that this is a qualitative test only, and

Fecal Occult Blood Rapid Test Cassette (Feces)

cannot determine the concentration of analytes in the specimen.

2. Insufficient specimen volume, incorrect operating procedure or expired tests are the most likely reasons for control band failure.

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 correctl 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. This test kit is to be used for the qualitative detection of human hemoglobin in fecal samples. A positive result suggests the presence of human hemoglobin in fecal samples. In addition to intestinal bleeding the presence of blood in stools may have other causes such as hemorrhoids, blood in urine etc.
- 2. Not all colorectal bleedings are due to precancerous or cancerous polyps. The information obtained by this test should be used in conjunction with other clinical findings and testing methods, such as colonoscopy gathered by the physician.
- 3. Negative results do not exclude bleeding since some polyps and colorectal region cancers can bleed intermittently or not at all. Additionally, blood may not be uniformly distributed in fecal samples. Colorectal polyps at an early stage may not bleed.
- 4. Urine and excessive dilution of sample with water from toilet bowl may cause erroneous test results. The use of a receptacle is recommended.
- 5. Feces specimens should not collect during the menstrual period and not three day before or afterwards, at bleeding due to constipation, bleeding haemorrhoids, or at taking rectally administered medication. It could cause false positive results.
- 6. This test may be less sensitive for detecting upper q.i. Bleeding because blood degrades as it passes through the q.i. Track.
- 7. The Fecal Occult Blood Rapid Test Cassette (Feces) is to aid indiagnosis and is not intended to replace other diagnostic procedures such as G.I. fibroscope, endoscopy, colonoscopy, or X-ray analysis. Test results should not be deemed conclusive with respect to the presence or absence of gastrointestinal bleeding or pathology. A positive result should be followed up with additional diagnostic procedures to determine the exact cause and source for the occult blood in the feces.

PERFORMANCE CHARACTERISTICS

Fecal Occult Blood Rapid Test Cassette (Feces) can detect the levels of human occult blood as low as 50 ng/mL hemoglobin or 6 ua hemoalobin/a feces.

2. Prozone Effect:

It is observed that this FOB test can detect 2 mg/mL hemoglobin.

3. Specificity: 99 9%

Fecal Occult Blood Rapid Test Cassette (Feces) is specific to human hemoglobin. Specimen containing the following substances at the standard concentration was tested on both positive and negative controls and showed no effects on test results at standards concentration

Substances	Concentrations (Diluted with the extraction buffer)
Beef hemoglobin	2 mg/mL
Chicken hemoglobin	0.5 mg/mL
Pig hemoglobin	0.5 mg/mL
Goat hemoglobin	0.5 mg/mL
Horse hemoglobin	20 mg/mL
Rabbit hemoglobin	0.06 mg/mL

REFERENCES

- 1. Simon J.B. Occult Blood Screening for Colorectal Carcinoma: A Critical Review, Gastroenterology, Vol. 1985;88:820.
- 2. Blebea J. and Ncpherson RA. False-Positive Guaiac Testing With Iodine, Arch Pathol Lab Med, 1985;109:437-40.

INDEX OF SYMBOLS										
[]i	Consult instructions for use	Σ	Tests per kit	EC REP	Authorized Representative					
IVD	For <i>in vitro</i> diagnostic use only	\subseteq	Use by	2	Do not reuse					
2°C 30°C	Store between 2~30°C	LOT	Lot Number	REF	Catalog#					

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