

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:
 2022-09-15

 Valid until:
 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.

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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.

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:

Device Name	REF Number	Model Number
Mission® Liquid Urine Control	U021-011	n/a
SPINREACT Liquid Urine Control	U021-013A	n/a
Insight® Liquid Urine Control	U021-015	n/a
Mission® Liquid Diptube Urine Control	U021-071	n/a
Insight® Liquid Diptube Urine Control	U021-075	n/a

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 22 day of October, 2021 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

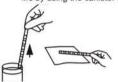
Simple and Accurate

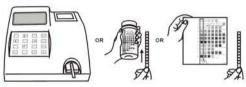
- Analytical sensitivity better than or comparable to market leaders
- · High quality color chart ensures accurate visual reading

- · 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	Step 1: Immerse strip into urine				Step 2: Remove excess urine					Step 3: Obtain results by analyzer or visual reading															
Catalan	Type of Strip *		Of the second	Reading Method Analyzer-Read			Parameters																		
Catalog No.	No. of Parameters	For Visual Reading	For Analyzer Reading (U120/U500)	Strips per Canister	Pouch Packaging*	Visual	U120	U500	Strips: Standard (S) or Additional (A)	ASC	GLU	BIL	KET	sg	BLO	рН	PRO	URO	NIT	LEU	ALB	CRE			
U031-131	13	13C	NA	100"	✓	1	NA	NA	Α	*	*	*	*	*	*	*	*	*	*	*	*	*			
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			10C	100"		1	/	1	S		*		*	*	*	*	*		*	*	*	*			
U031-091	9		9U	100	✓	~	1	1	S		*	*	*	*	*	*	*	*	*						
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U031-081	8		8N	100	¥	~	1	1	S		*		*	*	*	*	*		*	*					
11001 071			8S	100		1	V	1	A		*			*	*	*	*	*	*	*					
U031-071	7		7N	100	✓	1	1	1	A		*		*		*	*	*		*	*					
U031-061	6	6N	6NE 6UE	100	✓	4	V	4	A		*	*			*	*	*	100	*	*		\blacksquare			
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U031-041	4	4G	4GE	100	×	1	1				*				*		*			*					
		4N	4NE						1	1	1	3						*		*		*	*		
		4P	4PE			1	1	1			*		t				*		*	*					
		3P	3PE			1	V	1			*					*	*								
U031-031	3	3K	3KE	100	√	1	1 1	A		*		*				*									
0031-031		3G	3GE] 100	*	1	1	~	1 ^ 1		*		*			*									
		3N	3NE			1	~	V							*				*	*					
		2G	2GE			1	1	1			*						*								
		2K	2KE			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 4C
 QC tests can be performed once every 8 hours, day, week or month
 Analyzer will alert when to run QC test

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

Specifications

Feature Specifications				
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	n)		
Additional Strips Available	1-11 Parameters (5 mm x 108 mm); see URS Parameters			
Total Combinations Per Analyzer	4 Combinations			
Analyzer Ports	Standard RS232C Port for Barcode 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), Inte EAN 8, EAN 13	rleaved 25, UPC-A, UPC-E,		
Calibration	Automatic			
Available Languages on the Screen	English and additional language(s)			
Operating Conditions	0-40°C (32-104°F); ≤85% RH			
Storage Conditions	-5-50°C (23-122°F); ≤90% RH			
Power Source	100-240 VAC, 50-60 Hz			
Dimensions (L x W x H)	27.2 cm x 26.9 cm x 14.6 cm (10.7" x 10.6" x 5.7")			
Display Dimensions (L x W)	10.8 cm x 5.7 cm (4.2" x 2.2")			
Weight	2.6 kg (5.7 lbs)			

Ordering Information

Product Name	Catalog No.	Components		Components		Carton Dimensions (L x W x H) & Weight	Number of Kits/Carton		
U120 Urine Analyzer	/ +	1 Urine Analyzer 1 Strip holder		2 Fuses (2.0A) 1 Power Cord	42.0 cm x 41.5 cm x 3	1 cm; 5.0 kg	4		
O 120 Offile Affaiyzer	U111-101 ^à	2 Printer Paper Roll	s	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 2		2 Printer Paper Rolls 1 Barcode Reader (RS232C)		Serial Splitter Cable (RS232C) Quick Start Guide Instruction Manual	17.5" x 17.5" x 15.7"; 194 oz				
Barcode Reader	U221-111√ [†]	1 Barcode Reader (I	RS232C)	1 Serial Splitter Cable (RS232C)	23.6 cm x 10.8 cm x 7.8 cm; 0.482 kg 9.3" x 4.3" x 3.1"; 17.0 oz	63.0 cm x 37.0 cm x 30.0 cm; 12.0 kg 24.8" x 14.6" x 11.8"; 423.3 oz	22		
Printer Paper Rolls	11101 101	4 Printer Paper Rolls	Thermal F	aper (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		
rinter rapel Rolls	U121-101	4 Frinter Paper Rolls	Sticker Pa	per (0.06 m x 9 m): 100 results/roll	12.0 cm x 12.0 cm x 6.5 cm; 0.4 kg 4.7" x 4.7" x 2.6"; 14.1 oz	63.0 cm x 37.0 cm x 30.0 cm; 21.4 kg 24.8" x 14.6" x 11.8"; 684.3 oz; 754.9 oz			
U120 Data Transfer Kit	U221-131 ^à	1 Data Transfer Cable	(RS232C)	1 Package Insert	16.0 cm x 13.0 cm x 3.5 cm; 0.147 kg 6.3" x 5.1" x 1.4"; 5.2 oz	25.0 cm x 21.0 cm x 15.0 cm; 1.36 kg 9.8" x 8.3" x 5.9"; 48.0 oz	8		

U500 Urine Analyzer



Accurate and Efficient

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

Easy to Operate

Large touch screen LCD offers simple menu navigation

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

CONVENIENT

Automatic calibration and waste disposal reduce hands-on time

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

Strip selection of up to 4 combinations for analyzer reading

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

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

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

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

User Lockout

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

QC Lockout
 Prevents testing without passing QC

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

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

Specifications

Feature	Specifications					
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 (LxW)	11.5 cm x 9.0 cm (4.5" x 3.5")	Africa				
Weight	4.0 kg (8.8 lbs)					

Ordering Information

Product Name	Catalog No.	talog No. Components Kit Box Dir (L x W x H)		Components		Carton Dimensions (L x W x H) & Weight	Number of Kits/Carton
	1 12 14 17	1 Urine Analyzer 1 Strip Platform/Waste Tray		2 Fuses (2.0A) 1 Power Cord	51.0 cm x 42.0 cm x 3	8.5 cm; 7 kg	
U500 Urine Analyzer	U211-101√	2 Printer Paper Rolls		1 Instruction Manual	20.1" X 16.5" x 15.	2"; 246.9 oz	1
U500 Urine Analyzer	U211-111√	1 Urine Analyzer 1 Strip Platform/Waste Tray		2 Fuses (2.0A) 1 Power Cord	55.0 cm x 55.0 cm x	55.0cm; 9.2 kg	1
with Barcode Reader	02111111	2 Printer Paper Roll: 1 Barcode Reader (F	병원 전 2 km 2 cm 2 cm 2 km 2 km 2 km 2 km 2 km		21.7" x 21.7" x 21.7"; 324.5 oz		
Barcode Reader	U221-111 ^à	1 Barcode Reader (I	RS232C)	1 Serial Splitter Cable (RS232C)	23.6 cm x10.8 cm x 7.8 cm; 0. 482 kg 9.3" x 4.3" x 3.1"; 17.0 oz	63.0 cm x 37.0 cm x 30.0 cm; 12 kg 24.8" x 14.6" x 11.8"; 423.3 oz	22
Printer Paper Rolls	U121-101	4 Printer Paper Rolls	Thermal P	aper (0.06 m x 20 m): 200 results/roll	12.0 cm x 12.0 cm x 6.5 cm; 0.360 kg 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
	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"; 14.1oz	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	1,575)			
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

U500 Urine Analyzer



- 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 categories 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 up to 14 parameters, including Microalbumin/Creatinine/Calcium

 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
 Record Operator/Patient ID by Manual Entry and Barcode Reader

Unique Lockout Functions • Strip Lockout

- Pre-set option to prevent using strips of another brand, with a barcode reader or by manual entry
- User Lockout
- Option to eliminate unapproved users with up to 10 operators
- QC Lockout
- Prevents testing without passing QC
- 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 Categories	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			
Default Strips	8, 9, 10, 11 Parameters (108 mm x 5 mm)			
Strips Available	1-14 parameters (108 mm x 5 mm); see URS Parameters			
Parameter Order	Can select the order of parameters for display and print out			
Total Combinations Per Analyzer	4 Combinations			
Waste Disposal Capacity	Up to 150 Strips			
Analyzer Ports	RS232C Port for Barcode Reader or Data Transfer 25 Pin Parallel Port for External Printer			
Data Entry Capabilities	Operator/Patient ID - Manual Entry and Barcode Reader (Up to 25 characters)			
Connection 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), EAN 8, EAN 13, Interleave 25, UPCA, UPCE			
Calibration	Automatic			
Available Languages on the Screen	English and additional language(s)			
Operating Conditions	0-40°C (32-104°F); ≤85% RH			
Storage Conditions	-5-50°C (23-122°F);≤90% RH			
Power Source	100-240 VAC, 50-60 Hz			
Dimensions (L x W x H)	36.6 cm x 28.3 cm x 19.5cm (14.4" x 11.1" x 7.7")			
Display Dimensions (L x W)	11.5 cm x 9.0 cm (4.5" x 3.5")			
Weight	4.0 kg (8.8 lbs) without batteries or power supply			

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
LISOO Lisiaa Arabara		1 Urine Analyzer 1 Strip Platform/Waste	e Tray	2 Fuses (2.0A) 1 Power Cord	51.0 cm x 42.0 cm x 38	3.5 cm; 7 kg	
U500 Urine Analyzer	U211-101 ^à	2 Printer Paper Roll:			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 5	55.0cm; 9.2 kg	1
with Barcode Reader	3211 TIT	2 Printer Paper Roll: 1 Barcode Reader (I	. , , ,		21.7" x 21.7" x 21.7"; 324.5 oz		
Barcode Reader	U221-111 ^à	1 Barcode Reader (I	RS232C)	1 Serial Splitter Cable (RS232C)	23.6 cm x10.8 cm x 7.8 cm; 0. 482 kg 9.3" x 4.3" x 3.1"; 17.0 oz	63.0 cm x 37.0 cm x 30.0 cm; 12 kg 24.8" x 14.6" x 11.8"; 423.3 oz	- 22
Printer Paper Rolls	U121-101	4 Printer Paper Rolls	Thermal P	aper (0.06 m x 20 m): 200 results/roll	12.0 cm x 12.0 cm x 6.5 cm; 0.360 kg 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
- Times T apper Tions	0121-101	- Trimer raper rene	Sticker Paper (0.06 m x 9 m): 100 results/roll		12.0 cm x 12.0 cm x 6.5 cm; 0.40 kg 4.7" x 4.7" x 2.6"; 14.1oz	63.0 cm x 37.0 cm x 30.0 cm; 21.4 kg 24.8" x 14.6" x 11.8"; 684.3 oz; 754.9 oz	
U500 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; 0.147kg 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



Liquid Urine Control Package Insert

REF U021-011 English REF U021-021 REF U021-031

For validating visual and analyzer reading of urinalysis. For in vitro diagnostic use only

INTENDED USE

The Liquid Urine Control is intended for use in validating the visual and analyzer reading of urinalysis. The results should be compared to the expected results listed below to ensure the consistent performance of Mission® and Mission® Expert Urinalysis Reagent Strips and Urine Analyzers. The Liquid Urine Control is available in two levels and is ready to use for monitoring routine urinalysis

PRECAUTIONS

- For in vitro diagnostic use only. Do not use after the expiration date
- All materials should be considered potentially hazardous and handled in the same manner as an infectious agent.
- Discard if there is excessive turbidity or evidence of microbial contamination.
- The used materials should be discarded according to local regulations after testing
- This product is not intended for use as a standard.
- The use of quality control materials is an important part of good laboratory practices. Quality control materials are an objective method of assessing techniques or practices in use

The product is a liquid stable control prepared from simulated human urine with added chemicals, constituents of animal origin, preservatives and stabilizers. The control does not include human resource materials. Various pure chemicals are used to adjust each analyte level. STORAGE AND STABILITY

Store and ship at 2-8°C (35-46°F). Do not freeze.

- Controls are stable until the expiration date printed on the bottle label when stored at 2-8°C (35-46°F)
- All analytes are stable for 20 days at 2-30°C (35-86°F) once opened and stored with the cap on tightly.

MATERIALS

Materials Provided

· Liquid Urine Control Level 1 and/or Level 2

Strips

Package Insert

Materials Required But Not Provided

Timer

DIRECTIONS FOR USE

Allow all test materials to reach room temperature (15-30°C) prior to testing.

- 1. Invert the urine control bottle 3 times to ensure reproducible results, then remove the cap. While holding the urinalysis reagent strip, invert the urine control bottle and gently squeeze the urine control bottle to dispense the urine control. Ensure each reagent area on urinalysis reagent strip is completely saturated with urine control. See illustration 1 below. Note:
 - . Do not touch the tip of the urine control bottle to the reagent areas on the urinalysis reagent strip to avoid contamination.
 - · Dispense the remaining hanging drop of urine control before turning the urine control bottle upright.
- Dispose of the hanging drop of urine control to avoid contaminating the unused control with reagents from the urinalysis reagent strip.
- 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 the urine control. 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 may also be read using the Mission® and Mission® Expert Urine Analyzers. Refer to the Instruction Manual for details.
- 4. Clean the dropper tip, and immediately replace the cap tightly.



EXPECTED VALUES

The expected values listed on the following page should only be used for the specific lots printed. Expected values were obtained from replicate analysis The urine control and urinalysis reagent strip lots can create slight differences in expected results. Different laboratory methods, instruments and reagents can create variations between laboratories and variations over time. Use the results provided as reference only. It is recommended that each laboratory establish its own parameters of precision.

Note: The color reactions of Urobilinogen and Bilirubin reagent areas on the urinalysis reagent strips may produce colors that are atypical when visually

compared to the color blocks on the color chart

LIMITATIONS

The Mission® Liquid Urine Control can only be used with Mission® and Mission® Expert Urinalysis Reagent Strips and Urine Analyzers. Ensure reproducible results by inverting the urine control bottle 3 times before each use. Interpretation of visual results depends 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 color chart does not correspond to a specific concentration, but it does correspond to a range of analyte concentrations. Index of Symbols

Attention, see Tests per kit Manufacturer instructions for use For in vitro Authorized IVD Use by EC REP diagnostic use only Representative Store between LOT REF Lot Number Catalog # 2-8°C

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

EC REP MDSS GmbH Schiffgraben 41 30175 Hannover, Germany

> Number: 1150529002 Effective date: 2010-xx-xx



Package Insert

REF U031-011	REF U031-051	REF U031-091	
REF U031-021	REF U031-061	REF U031-101	
REF U031-031 REF U031-041	REF U031-071 REF U031-081	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 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 (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 ± 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/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

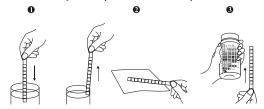
· Package insert

· 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.

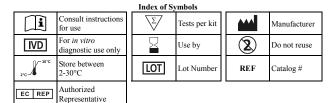
Urobilinogen: All results lower than 1 mg/dL urobilinogen should be interpreted as normal. A negative result does not at any time preclude the absence of urobilinogen. The reagent area may react with interfering substances known to react with Ehrlich's reagent. such as p-aminosalicylic acid and sulfonamides. 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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EC REP MDSS GmbH Schiffgraben 41 30175 Hannover, Germany

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