Versatile Urine Analysis System

AUTION ELEVEN

AE-4020

Small, High Throughput
Point of Care, Automated

arkray, inc.

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ARKRAY - Dedicated to Urine Analysis

ARKRAY, Inc. manufactured world's first urine analysis system in 1972. Since then, our award-winning R&D has continued to deliver state-of-the-art reliable systems to help the laboratory specialist in every possible situation.

Aution 11 - No More Compromises

Getting new systems for your laboratory is a difficult and time consuming process. You are faced with many opinions and different needs. This forces you to make choices and to compromise.

With ARKRAY's latest urinalysis platform, the Aution 11, you can forget about compromise. Don't choose, just get it all. The new Aution 11 is so flexible and versatile, that it will meet your requirements, no matter what your laboratory circumstances are.

This instrument was designed to function anywhere.

Specifications	
Sample	Urine - applied to urine dipstick
Test Items	Compatible with Aution Sticks*
Measurement Principle	Dual wavelength reflectance method
Wavelengths	LED: 430, 565, 635 & 760 nm
Speed	up to 514 tests/hour
Reaction Interval	60 seconds
Data Memory	520 tests
Dimensions & Weight	W 210 x D 328 x H 164 mm, 3.6 kg
Built-in Printer	Thermal, 58 mm width
Display	Customized LCD (iconized)
External Output	RS-232C, Ethernet
Power Supply	AC 100 - 240 V adaptor, 45 VA

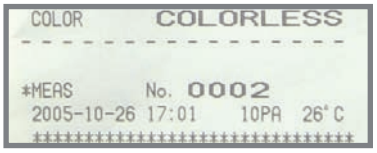
Design and specifications may be subject to change without notice

Whether you are a high throughput lab, or run only several routine samples per day, the Aution 11 will do the job for you. AE-4020's speed, accuracy and reliability suit the central laboratory; the compact size and minimal weight, allow you to take it to the point of care.

Easy-to-use, Flexible, Versatile

The Aution 11 was built to make your daily routine easier and more comfortable. Simply place the first dipstick and the process starts automatically. The capacity is up to 514 test s/hour and 520 tests can be stored in memory for database use and analysis. Other convincing features are:

For both left- and right-handed use - optimize workflow
No screws to open - easy maintenance within minutes
Detailed printout - results immediately available
RS-232C PC output - advanced automation
Automatic feeder & timer - avoid errors



Color tone detection, automatic temperature compensation etc. are all shown on the detailed printout.

Urine sticks can be placed from both the left-handed and right-handed side.

True Accuracy, for the True Professional

The laboratory professional needs reliable results. ARKRAY's urinalysis systems give you unmatched ease and automation, and accuracy to rely on. The core of all ARKRAY systems is our product line of high quality urine dipsticks, Aution Sticks*. These sticks guarantee precision, sample after sample.

With the unmatched ability to manufacture both instruments and reagents, ARKRAY is a unique partner in the urine analysis laboratory.

**The Aution 11 is set standard to work with AUTION Sticks-10EA. Ask your distributor for detailed specifications and which products are available in your country.*

SENSITIVITY, RANGE AND CORRELATION

Item	Min. detecting sensitivity	Range
Glucose	50 mg/dL (3 mmol/L)	50-1000 mg/dL (3-60 mmol/L)
Protein	15 mg/dL (0.15 g/L)	15-1000 mg/dL (0.15-10.0 g/L)
Bilirubin	0.5 mg/dL (8.5 µmol/L)	0.5-6.0 mg/dL (8.5-100 µmol/L)
Urobilinogen	2 mg/dL (35 µmol/L)	2-8 mg/dL (35-150 µmol/L)
pH	1.0 unit within the range of pH5-9	pH5-9
Specific Gravity	Between 1.000 to 1.030 by steps of 0.005	1.000-1.030
Blood	Hemoglobin 0.03 mg/dL (Hemoglobin 0.3 mg/L) Erythrocyte about 10 Ery/µL	Hemoglobin 0.03-1.0 mg/dL (Hemoglobin 0.3-10 mg/L)
Ketones	Acetoacetic acid 5 mg/dL (Acetoacetic acid 0.5 mmol/L)	5-150 mg/dL (0.5-15 mmol/L)
Nitrite	The amount of bacteria about 10^5/mL (100/µL) Nitrite 0.08 mg/dL (Nitrite 0.8 mg/L)	Nitrite 0.08-0.5 mg/dL (Nitrite 0.8-5 mg/L)
Leukocytes	About 25 Leu/µL	25-500 Leu/µL

※Result of correlation test compared to conventional method.

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