AVE-772

Fully Automated Integrated Urine Analyzer

Specifications

• Throughput

Chemistry 240T/H Microscopy 50-120T/H Chem+Micro 50-120T/H

• Min. sample volume: 5ml

• Sample preparation: Native sample

· Built-in barcode reader: Yes

• Counting Chamber: 3 channels

• Detection rate: ≥98% for sample at concentration of 5 cells/µI

· Accuracy: -For chemistry measurement, comparing to reference solution, results are within tolerance of one level or no false positive and negative;

-For microscopy measurement, ≥95%

• Repeatability: -For chemistry measurement, CV≤1%; -For microscopy measurement, CV≤7%

 Carryover: At concentration of 4600-5400 cells/µl ,≤1 cell/µl; At concentration of 9200-10800 cells/µl, ≤2 cells/µl

• Verification: Full-view field images + segmented images

• Report: Comprehensive results with images and diagrams

• Sampler: Loading capacity of 60 samples

• Strip tank capacity: 200 strips

• STAT: Available

· Data interface: Bidirectional · LIS/HIS connection: Available

Computer:External

• Results storage: ≥200,000 results • Dimensions: 825mm×647.5mm×514mm

• Weight: 75kg



Product and Consumables:

Product Name	Specifications	Art. No.
Fully Automated Integrated Urine Analyzer	AVE-772	77201
Urine test strips	AVE-11AH	01107//
Calibrator For Urine Formed Elements Analyzer	10mL*28	21006
Reagent Kit:		
Cleanser I	500mL	13001/
Cleanser II	40mL	///////////////////////////////////////
Buffer	40mL	////////12004

Matrix Labs

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AVE-772

Fully Automated Integrated Urine Analyzer

"Touching Human Lives Through Innovation"





: Measurement Technology

- Physical measurement: color, turbidity measured by RGB photo electric sensor; specific gravity measured by refractometer; conductivity measured by electrode method.
- Chemistry measurement: CCD Capture Images
- Microscopy measurement: Machine Vision Technology (Automated Morphological Microscopy). Through Artificial intelligent Reporting.

: Physical Measurement

- Independent PMC module automatically measures color, turbidity, specific gravity and conductivity.
- More accurate SG result measured by refractometer

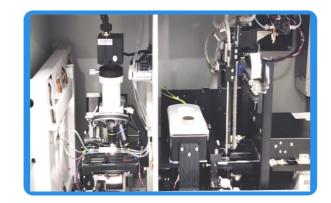
: Chemistry Measurement

- · Patent strip feeding device.
- Innovative sample sprinkling technology to avoid undetection.
- Test results traceable with images.

: Microscopy Measurement

- Made strictly according to ISLH Recommended Reference Procedure for the Enumeration of Particles in Urine.
- Uncentrifuged urine samples at cut-off concentration level of 3-5 cells/µI are detectable.
- Precise morphological analysis of RBC helps to determine the source of hematuria.
- Standardized and confirmatory report with both images and diagrams available. Pop ups indicate on-screen verification with no need to redo the measurement.
- Self-learning function continuously improves the recognition accuracy.
- CFDA approved quality controls of four levels available.

: Inbuilt Automated Microscope



: Detected Parameters

- Chemistry Measurements: 11,14 parameters available.
- Microscopy Measurements: RBC, WBC, Epithelial Cells, Crystal, Casts, Mucus, Yeast, Bacteria, etc.
 Further sub-classification is available with manual on-screen verification.
- Physical Measurements: color, turbidity, specific gravity and conductivity.
- Extensional Measurement: pleuroperitoneal fluid, cerebrospinal fluid, gastric fluid, etc.

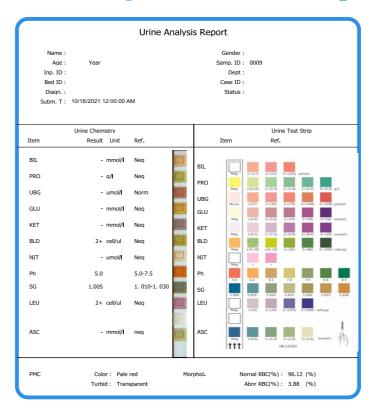
: Advantages

- Unique design with both Chemistry and Microscopy measurements integrated, which makes both measurements done by sampling once.
- Measurement Modes Optional: chemistry, microscopy, or chemistry+microscopy.

: Working Procedure



: LIS Images Transferable Report Format



	Urino Analycic	Conort			
Urine Analysis Report					
Urine Formed Element					
Item	Resu	lt Unit	Ref.		
RBC	5-10	/HPF	0-1		
WBC	2-3	/HPF	0-1		
Crystal	5-10	/HPF	0-1		
Cast	5-15	/LPF	0-1		
Epithelium	5-15	/LPF	0-1		
Normal RBC	5-10	/HPF	0-1		
Abnr RBC	1-2	/HPF	0-1		
Mucus	0	/LPF	0-1		
Uric Acid Crystal	2-3	/HPF	0-1		
Magnesium Phosphate Crystal	0	/HPF	0-1		
Amorphous Crystal	0	/HPF	0-1		
Calcium Oxalate Crystal	2-3	/HPF	0-1		
Cystine Crystal	3-5	/HPF	0-1		
Granular Cast	0-3	/LPF	0-1		
Hyaline Cast	0-2	/LPF	0-1		
Waxy Cast	0	/LPF	0-1		
Squamous Cell	0-2	/LPF	0-1		
SREC	0	/LPF	0-1		
Acanthoycte	0	/HPF	0-1		
Crenated Erythrocyte	5-10	/HPF	0-1		
Yeast	5-10	/HPF	0-1		
Bacteria	2-3	/HPF	0-1		

