

AVE-772

Fully Automated Integrated Urine Analyzer

Specifications

- Throughput
Chemistry 240T/H Microscopy 50-120T/H Chem+Micro 50-120T/H
- Min. sample volume: 3ml
- Sample preparation: Native sample
- Built-in barcode reader: Yes
- Counting Chamber: 3 channels
- Detection rate: ≥98% for sample at concentration of 5 cells/μl
- 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	14008
Buffer	40mL	12004

Matrix Labs Diagnocare Pvt. Ltd.,

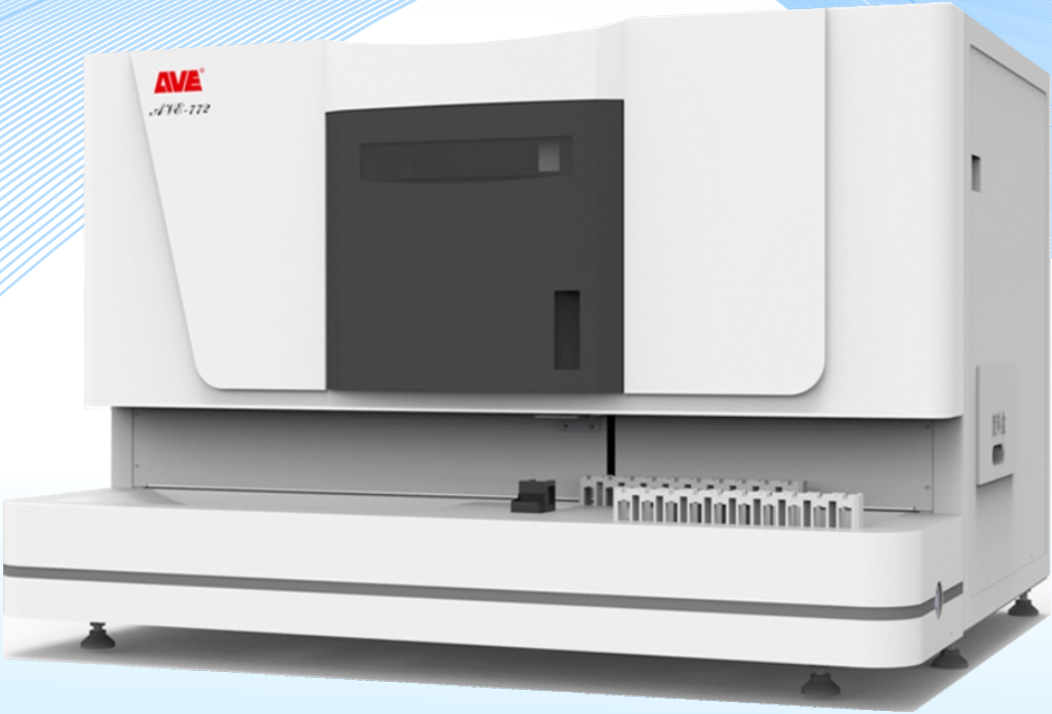
"Matrix Towers" 3rd Floor, S.No-114/13A, 13B, 12B, 12A2,
Ponnamman Kovil Street, Noombal,
Chennai-600077, India.
+91-044-26793885 / 87 / Toll free : 18001201713,
info@matrixlabs.in, www.matrixlabs.in



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: Reflectance + Digital image capture

⌚ Physical Measurement

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

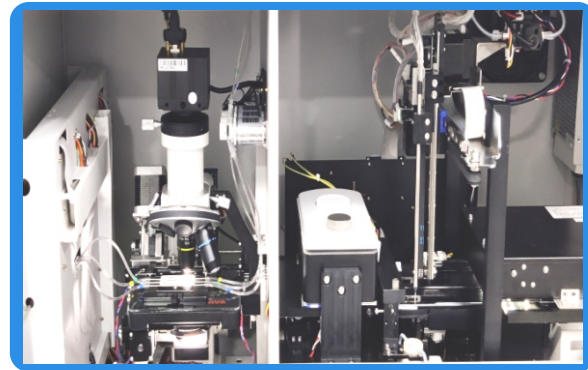
⌚ Chemistry Measurement

- 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/ μ l 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



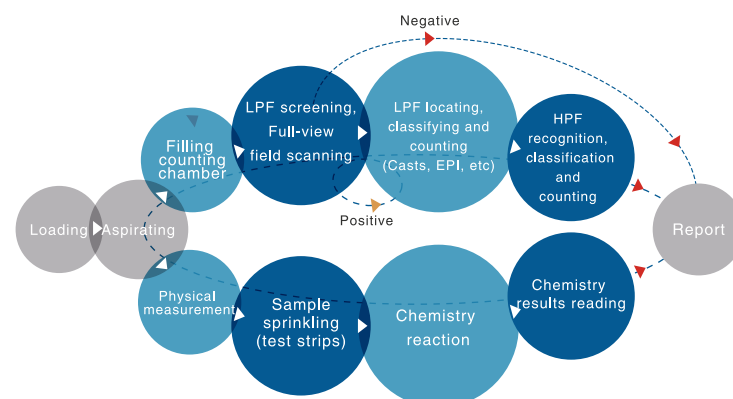
⋮ Detected Parameters

- 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.
- Microscopy fine adjustment for clear cells available in on-screen verification

∴ Working Procedure



✧ LIS Images Transferable Report Format

Urine Chemistry				Urine Test Strip			
Item	Result	Unit	Ref.	Item	Ref.		
BIL	-	mmol/l	Neq	BIL	 Neg 1+ (1.17) 2+ (5.31) 3+ (10.6) 4+ (15.9) 5+ (21.2) 6+ (26.5)	mmol/L	
PRO	-	g/l	Neq	PRO	 Neg 1+ (0.15) 2+ (0.3) 3+ (0.6) 4+ (0.9) 5+ (1.2) 6+ (1.5)	g/L	
UBG	-	umol/l	Norm	UBG	 Neg 1+ (0.15) 2+ (0.3) 3+ (0.6) 4+ (0.9) 5+ (1.2) 6+ (1.5)	umol/L	
GLU	-	mmol/l	Neq	GLU	 Neg 1+ (0.15) 2+ (0.3) 3+ (0.6) 4+ (0.9) 5+ (1.2) 6+ (1.5)	mmol/L	
KET	-	mmol/l	Neq	KET	 Neg 1+ (0.15) 2+ (0.3) 3+ (0.6) 4+ (0.9) 5+ (1.2) 6+ (1.5)	mmol/L	
BLD	2+	cell/ul	Neq	BLD	 Neg 1+ (0.15) 2+ (0.3) 3+ (0.6) 4+ (0.9) 5+ (1.2) 6+ (1.5)	cell/ul	
NIT	-	umol/l	Neq	NIT	 Neg 1+ (0.15) 2+ (0.3) 3+ (0.6) 4+ (0.9) 5+ (1.2) 6+ (1.5)	umol/L	
Ph	5.0		5.0-7.5	Ph	 5.0 6.0 6.5 7.0 7.5 8.0		
SG	1.005		1.010-1.030	SG	 1.000 1.005 1.010 1.015 1.020 1.025 1.030		
LEU	2+	cell/ul	Neq	LEU	 Neg 1+ (0.15) 2+ (0.3) 3+ (0.6) 4+ (0.9) 5+ (1.2) 6+ (1.5)	cell/ul	
ASC	-	mmol/l	neq	ASC	 Neg 1+ (0.15) 2+ (0.3) 3+ (0.6) 4+ (0.9) 5+ (1.2) 6+ (1.5)	mmol/L	

PMC Color : Pale red
 Turbid : Transparent

Morphol.

Normal RBC(%) : 96.12 (%)
 Abnr RBC(%) : 3.88 (%)

Urine Formed Element		
Item	Result 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
Acanthocyte	0 /HPF	0-1
Crenated Erythrocyte	5-10 /HPF	0-1
Yeast	5-10 /HPF	0-1
Bacteria	2-3 /HPF	0-1

PMC	Color : Yellow	Morphol .	Normal RBC (%) :
	Turbid : Transparent		Abnr RBC (%) :
	Conduct : 25.88		
	Osmatic pressure 937.77		
