Erba Mannheim | TRANSASIA®
No.1 Diagnostic Company in India

APEX UA

Urine Sediment Microscopy Analyzer

Transforming mid-volume labs from manual microscopy to Smart, Standardized Automation



No Centrifuge

Improve preservation of fragile urine particles

Accurate Results

Standardization eliminates manual errors

AI Integration

High-resolution image with AI integration software

APEX UA is a smart semi-automated urine sediment microscopy analyzer designed to replace manual microscopy, delivering standardized, error-free results. Powered by advanced imaging and AI recognition, the system captures multi-layer urine elements and delivers fast, accurate, and objective results through a unique algorithm.

Reporting format

Urine Analysis Report

Name:	Sex:	Age:0	OP#:		SN: 3
ADM#:	Bed#:	Dept.:	Notes:		Barcode:07H0208300G

Formed element item name	Test result	Unit	Prompt	NR	Quantitative results(/μl)
BACT	Negative(3.05)	/HPF		0-10.10	170
SEC	+(0.28)	/HPF	H	0-0.20	16
EP	+(0.28)	/HPF	H	0-0.20	16
WBC	1.89	/HPF		0.00-2.40	7
unknown	Negative	/ul		0.00-0.00	0
RBC	Negative	/HPF		0.00-2.10	0
N-RBC	Negative	/HPF		0.00-2.10	0
D-RBC	Negative	/HPF		0.00-2.10	0
YLC	Negative(0)	/HPF		0-0.20	0
RTEC	Negative(0)	/LPF		0-0.10	0
TE	Negative(0)	/LPF		0-0.10	0
HYA.C	Negative	/LPF		0.00-1.00	0
PATH.C	Negative	/LPF		0.00-1.00	0
Cast	Negative	/LPF		0.00-1.00	0
OTH.TAL	Negative(0)	/HPF		0-0.10	0
CAOX	Negative(0)	/HPF		0-0.10	0
Crystal	Negative(0)	/LPF		0-0.10	0
MT	Negative(0)	/LPF		0-0.50	0
SPERM	Negative	/HPF		0.00-6.00	0

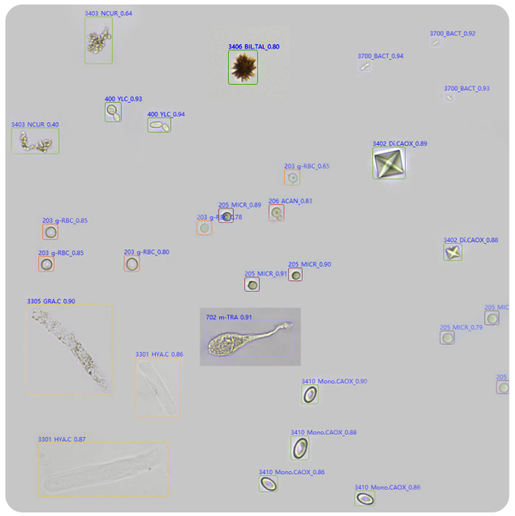
Formed element picture | RBC phase image

Physics item name	Test result	Unit	NR
COLOR	Light yellow		Yellow/Light yellow

Submitted By:	Tested By:	APV:
SUBM date:2025-12-05	Test time:2025-12-05 18:53:08	Printing time:2026-06-08 14:58:51

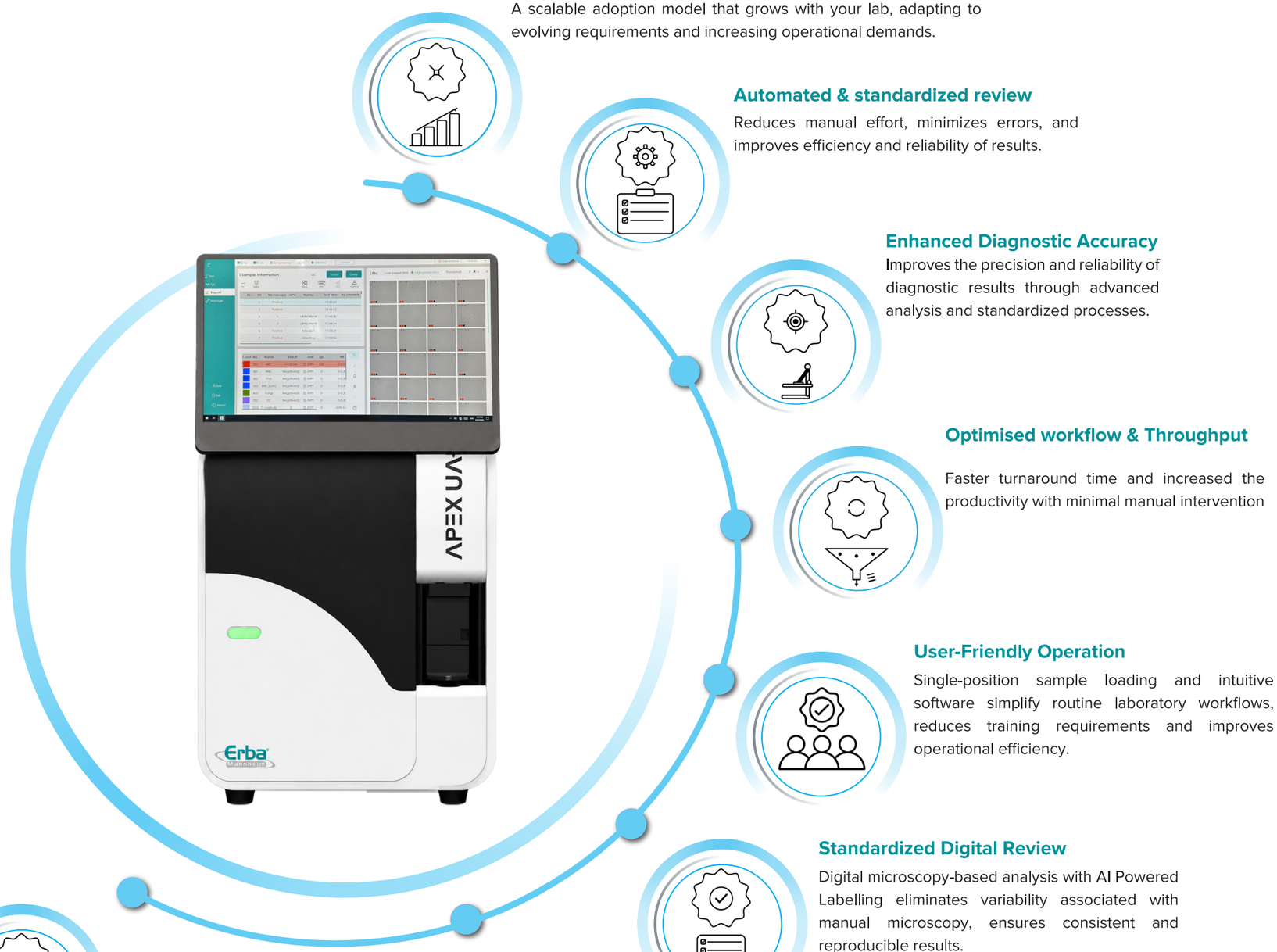
This report is responsible for the sample.

Images of elements



Key Features

Digital microscopy-based analysis for standardized review



Scalable adoption model

A scalable adoption model that grows with your lab, adapting to evolving requirements and increasing operational demands.

Automated & standardized review

Reduces manual effort, minimizes errors, and improves efficiency and reliability of results.

Enhanced Diagnostic Accuracy

Improves the precision and reliability of diagnostic results through advanced analysis and standardized processes.

Optimised workflow & Throughput

Faster turnaround time and increased the productivity with minimal manual intervention

User-Friendly Operation

Single-position sample loading and intuitive software simplify routine laboratory workflows, reduces training requirements and improves operational efficiency.

Standardized Digital Review

Digital microscopy-based analysis with AI Powered Labelling eliminates variability associated with manual microscopy, ensures consistent and reproducible results.

LIS/HIS Connectivity

Seamlessly integrates with Laboratory Information Systems (LIS) and Hospital Information Systems (HIS) for streamlined workflow and data exchange.



Integration with Laura Continuous Strip Reader

The chemistry report can be transmitted to Apex UA and the user will get a single report of chemistry report and sedimentation together

Technical Specifications

Method	Digital Microscopy (standardized review) with Gravity Based sediment
Sample Volume	2.5 ml
Aspiration Volume	2 ml
Analysis Time	~1.7 mins
Throughput	35 sample/hr.
Mixing of samples	Automated
Sample Aspiration	Automated
Image	20 images/samples
Labelling of element	AI powered
Accuracy	>= 95%
Sample Detection	Sample ID by manual entry or by external barcode reader
Memory	1,50,000
Power	AC100-240 V, 50/60 Hz
Connectivity	RS232 Serial port USB , external keyboard, external barcode scanner
Weight & Dimension	20 kg & 330 mm × 405 mm × 550 mm
Parameters	• RBC & Sub-Classification • WBC & Pus cell • Yeast • Mucus • Epithelial cell & Sub-Classification • Crystals & Sub-Classification • Casts & Sub-Classification • Sperm • Trichomonas • Bacteria & Sub-Classification

Ordering Information

Product Code	Product	Quantity
190097	APEX UA Urine Sediment Analyzer	1 Unit
137129	APEX UA Sample Diluent	5L
137127	APEX UA Sample Diluent	10L
137131	APEX UA Cleaning solution I	500ml
122041	APEX UA Concentrated Cleaning Solution II	100ml

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