



URINALYSIS RANGE



Making Automation Affordable
for Labs Everywhere

www.erbamannheim.com

WHY CHOOSE ERBA MANNHEIM

Nearly 50 years of experience in the field of urinalysis* (ERBA LACHEMA).

Erba Mannheim is a fully integrated global in vitro diagnostics company, offering a comprehensive suite of clinical testing products to the growing number of smaller hospitals, reference labs and physician clinics in the developed and emerging markets with reliable, affordable and innovative health care products.



BRINGING URINALYSIS SOLUTIONS TO GROWING LABS EVERYWHERE

Urinalysis is one of the most frequently performed clinical investigations. It's used to screen for, diagnose and monitor a wide variety of renal, urological and metabolic conditions.

Manual urinalysis involves visual examination, dipstick test and microscopy of the urinary sediment. Manual urinalysis is time and labour-intensive, requires specific expertise and is prone to analytical errors. Automatic urine analysers are now commonplace in larger laboratories.



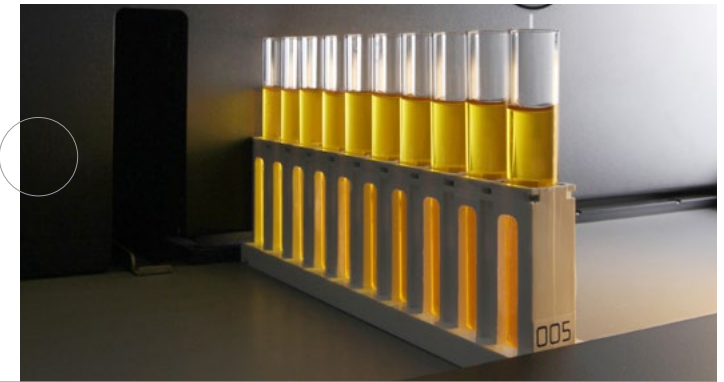
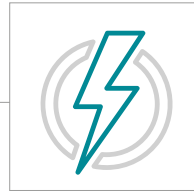
(*) The first GLUKOPHAN strips for visual evaluation were launched in 1973.

Powerful

COMPLETE SOLUTION

Everything you need to efficient, high-quality urine analysis in one place

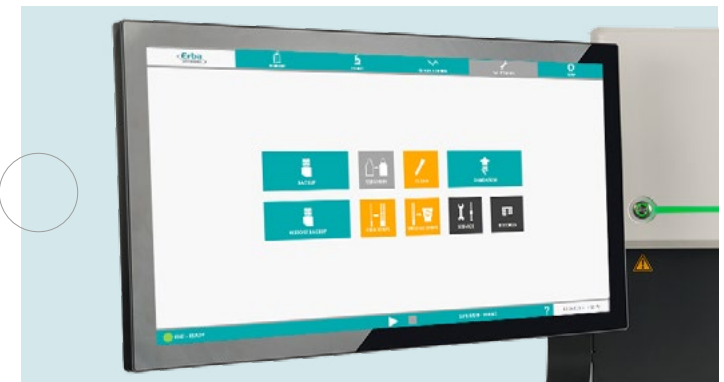
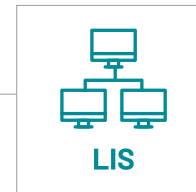
- Fully automated, hybrid instrument
- Semiautomated strips readers
- Visual strips
- Control material



User friendly

EASY TO USE

- Intuitive user interface
- LIS connectivity
- Advanced QC management and security function



Efficient

INCREASE PRODUCTIVITY

- Testing flexibility with proven PHAN strips technology
- Workflow optimization and convenient data management
- Comprehensive support network



LAURA XL ^{VE}

Workflow optimization
through full automation

Combining urine strip reading and digital microscopy, the Laura XL delivers fully automated processing of urine samples.

From homogenisation and dispensing onto strips, to sedimentation and result evaluation, it's all done automatically, accurately and quickly.

High resolution digital images are generated, reducing the need for additional evaluation by visual microscopy.



A FEW DROPS IS ALL THAT'S NEEDED

When paediatric or neonatal samples are too small to be analysed, a new sample must be requested, causing treatment to be delayed in the most vulnerable patients.

The Laura XL has been designed specifically with this in mind. Its efficient fluidics system requires just 0.9ml of urine for full analysis, ensuring you get the best result for your patient first time.



Key features of LAURA XL fully automated urine analyser



POWERFUL AUTOMATION

- Fully automated processing
- 3 operating modes
- 10 or 11 chemistry parameters, plus color and clarity
- 18 automated sediment categories
- 16 additional manual sediment categories

EASY TO USE

- Intuitive user interface
- LIS connectivity
- Automatic programmed maintenance
- Active humidity protection

EFFICIENT AND TIME SAVING

- Up to 125 – 160 tests per hour
- Reusable cuvettes
- Full analytics from 0.9ml urine

LAURA VE AE

Semi automated Urine strip analyser

Complete Solution

The LAURA analyser with PHAN diagnostic strips and URINORM urine controls provide a complete solution to optimize laboratory workflow.

Automatic incubation, measurement and evaluation of urine strip results, as well as comprehensive data management, brings customers more convenience while reducing the incidence of potential human errors.



Key features of LAURA Urine strip analyser



DIP AND MEASURE

The overall operation and software design is very user friendly. Intuitive icons navigate the user through the menu and help quick adaptation to the new system.



PROVEN TECHNOLOGY

PHAN strips technology uses an enzymatic degradation of ascorbic acid which act as strong interfering agent.



COMPREHENSIVE DATA MANAGEMENT

A unique ID number can be entered for each sample either manually or by means of external keyboard or barcode reader.



ADVANCED QC MANAGEMENT

QC timing reminds
QC measurement



Flagging of abnormal results and recommendation for sediment analysis

QC lock prevents sample measurement if QC fails

Target QC values set in the software by default



STRIP TYPE FLEXIBILITY

Strip type is recognized automatically by the reader, no manual setting required.

	SG	LEU	NIT	pH	PRO	GLU	KET	U BG	BIL	BLD	MA	CRE	CP
DEKAPHAN LAURA	●	●	●	●	●	●	●	●	●	●			●
HEPTAPHAN LAURA				●	●	●	●	●	●	●			●
PENTAPHAN LAURA				●	●	●	●			●			●
TETRAPHAN SG LAURA	●			●	●	●							●
MICROALBUPHAN LAURA*											●	●	●

* Albumin/Creatinine ratio is calculated automatically for each measured urine sample.

LAURA SMART $\Lambda \Xi$

Objective and compact solution for urine analysis

Urine strip reader LAURA® Smart is an efficient and compact solution for routine chemical urinalysis.

Be it a clinical laboratory or the ambulance of a GP, a diabetologist, a nephrologist or other specialist, the objective photometric evaluation and semi-automated technology provided by LAURA® Smart will ease the processing of samples and contribute to correct diagnosis of the patients.



Main features of LAURA SMART reader

SMART TIMING® MODE

Smart Timing® is a special working mode of LAURA® Smart that provides an elevated throughput of 240 samples per hour. While in Standard mode 1 strip incubation is counted at a time, in Smart Timing® mode 4 incubation periods are counted in parallel enabling a four times higher throughput

SAMPLE IDENTIFICATION MADE EASY

LAURA® Smart offers two different sample identification modes:

Sequential: a sequence number is automatically assigned to each sample

Sample ID: a unique ID number can be entered for each sample either manually or by means of external keyboard or barcode reader

CONTROL, CALIBRATION AND MAINTENANCE

LAURA® Smart performs a simple and fast automatic self-check and calibration at each start-up.

STRIP TYPE FLEXIBILITY

To cover the full range of routine chemical urinalysis, LAURA® Smart is compatible with different types of urine test strips. The strip type being used is automatically identified by the reader, no manual setting is needed.

	SG	LEU	NIT	pH	PRO	GLU	KET	UBG	BIL	BLD	MA	CRE	CP
DEKAPHAN LAURA	●	●	●	●	●	●	●	●	●	●			●
HEPTAPHAN LAURA				●	●	●	●	●	●	●			●
PENTAPHAN LAURA				●	●	●	●			●			●
TETRAPHAN SG LAURA	●			●	●	●							●
MICROALBUPHAN LAURA*											●	●	●

* Albumin/Creatinine ratio is calculated automatically for each measured urine sample.

VISUAL PHAN STRIPS

The PHAN diagnostic strips provide an efficient screening in connection with standard examinations of patients and monitoring of their subsequent treatment.

The principal benefits of the products are simplicity of the process of testing, speed of the testing procedure (results obtained within 1-2 minutes) as well as a high level of diagnostic specificity and sensitivity. The strips are to be used mainly in clinical chemistry laboratories and surgeries of specialized physicians and general practitioners.

Cat No	Product Name	Quantity
URPH0001	ALBUPHAN	50 strips
URPH0002	GLUKOPHAN	50 strips
URPH0003	HEMOPHAN	50 strips
URPH0004	KETOPHAN	50 strips
URPH0005	DIAPHAN	50 strips
URPH0007	TRIPHAN	50 strips
URPH0009	TETRAPHAN DIA	50 strips
URPH0010	PENTAPHAN	50 strips
URPH0011	HEXAPHAN	50 strips
URPH0012	HEXAPHAN	100 strips
URPH0013	HEPTAPHAN	50 strips
URPH0014	HEPTAPHAN	100 strips
URPH0015	NONAPHAN SG	100 strips
URPH0016	NEFROPHAN LEUCO	50 strips
URPH0017	DEKAPHAN LEUCO	50 strips
URPH0018	DEKAPHAN LEUCO	100 strips
URPH0019	UNDEKAPHAN	50 strips



LAURA XL ^{VE}

Technical Specifications

CHEMISTRY ANALYSIS			
Method	Reflectance photometry		
Parameters	SG, LEU, NIT, pH, PRO, GLU, KET, UBG, BIL, BLD, ASC, Color, Clarity		
Units	SI, conventional, arbitrary		
SEDIMENT ANALYSIS			
Method	Digital microscopy		
Parameters	RBC/nRBC, dRBCe/dRBCg, WBC, WBCc, SQEP, NSE, HYA, CASTS, SPRM, CaOX, TRIP, UA, CRY5, BACR, BACC, YST, MUC, UNCC		
Units	N/μL; N/x μL; Microscopy units (LPF, HPF); Total counts		
SYSTEM INFORMATION			
Analytical Modes with Max Throughput		Dimensions	
Chemistry only	up to 160 tests/h	Width	943 mm
Sediment only	up to 125 tests/h	Depth	675 mm
Hybrid	up to 125 tests/h	Height	563 mm
		Weight	70 kg
Minimal Sample Volume		Working Conditions	
Primary tube	2 mL	Temperature	16 – 30°C
Micro tube	0,9 mL	Humidity	5 – 85% RH (noncondensing)
Sample Loading Capacity		Supported Barcodes	
120 samples (12 racks x 10 tubes)		Code 128 (A, B, C), 39, 93, Codabar, Interleaved 2/5	
Memory		Interface	
> 500,000 results		ASTM (RS323 + LAN), USB	
ORDER CODES			
Cat No	Product Name		Quantity
INS00065	LAURA XL		1

LAURA ^{VE} ^{ΛE}

Technical Specifications

SYSTEM INFORMATION			
Parameters		Dimensions	
Specific gravity, leucocytes, nitrite, pH, protein, glucose, ketones, urobilinogen, bilirubin, blood, microalbumin, creatinine (incl. ALB/CRE)		Width	300 mm
		Depth	287 mm
		Height	148 mm
		Weight	3.2 kg
Method		User Interface	
Reflectance photometry		Color touch screen (800 x 480 pixels)	
Throughput		Sample Identification	
Up to 400 tests/h		Manual entry, barcode reader, worklist	
Memory		Interface	
1,000 results		RS232 serial port, Ethernet, PS2, 2x USB	
Printer		Working Conditions	
Built-in thermal printer		15 °C – 35 °C	
		20 % to 80 % relative humidity	
		100 V to 240 V / 50 – 60 Hz	
		7.5 V; 5.34 A	
ORDER CODES			
Cat No	Product Name		Quantity
INS00063	LAURA		1

LAURA SMART ^{AE}

Technical Specifications

SYSTEM INFORMATION		
Parameters	Dimensions	
Specific gravity, leucocytes, nitrite, pH, protein, glucose, ketones, urobilinogen, bilirubin, blood, microalbumin, creatinine (incl. ALB/CRE)	Width	230 mm
	Depth	127 mm
	Height	110 mm
	Weight	0.8 kg
Method	Incubation period:	
Reflectance photometry	55s	
Memory	Interface	
360 results	RS232, USB	
Connectivity	Working Conditions	
Connect external keyboard or a barcode scanner via PS/2	Temperature	20 – 25 °C
	Humidity	20 – 80 %
Printer	Touchscreen	
Built-in thermo printer	Color TFT LCD display (320 x 240 pixels)	
ORDER CODES		
Cat No	Product Name	Quantity
INS00064	LAURA® SMART	1

CONSUMABLES

Order Codes

LAURA & LAURA SMART		
Cat No	Product Name	Quantity
URPH0025	TETRAPHAN SG LAURA	100 strips
URPH0026	PENTAPHAN LAURA	100 strips
URPH0027	HEPTAPHAN LAURA	100 strips
URPH0028	DEKAPHAN LAURA	100 strips
URPH0029	MICROALBUPHAN LAURA	50 strips
REG00053	URINORM (CONTROL MATERIAL)	2x3x15 mL
LAURA XL		
Cat No	Product Name	Quantity
URPH0030	DEKAPHAN AUTO	100 strips
URPH0031	UNDEKAPHAN AUTO	100 strips
REG00054	OPTI-SOL XL 750	1x6x50 mL
REG00055	OPTI-SOL XL 1500	1x400 mL
REG00060	URINORM XL	2 x 120 mL

We are an emerging player in in-vitro diagnostics, with a global footprint. Our mission is to make automation affordable for labs everywhere.

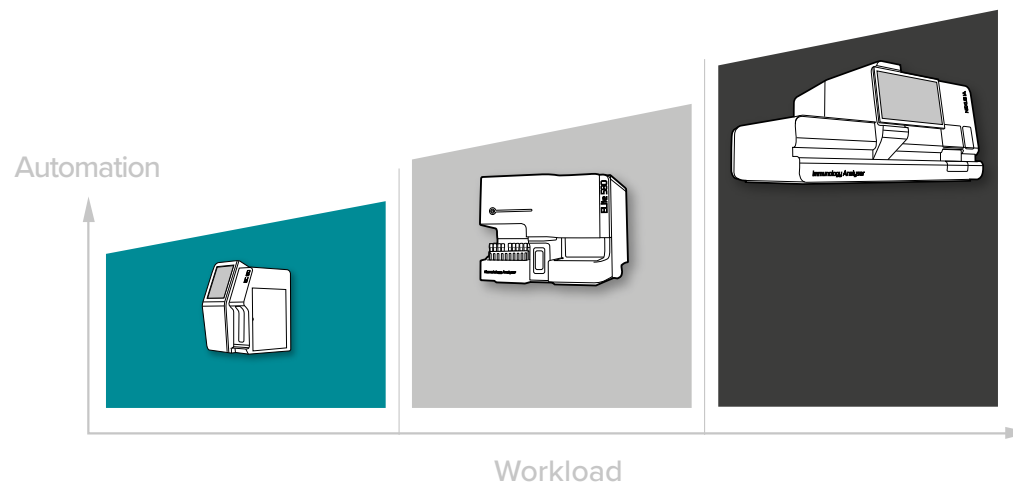
Providing hospitals and labs with a full range of diagnostic instruments, reagents and support services in more than 100 countries, our focus is on improving health outcomes in developing nations.

We believe every lab should benefit from automation, no matter how big or small. And we know that different labs have different needs, so we offer three distinct ranges of products, helping you to find the ideal solution.

Nexus Total Lab Automation Made Accessible

Vertex Powerful Automation for Mid-Sized Labs

Apex Basic Automation for Small Labs



APEX

BASIC AUTOMATION
FOR SMALL LABS

VERTEX

POWERFUL AUTOMATION
FOR MID-SIZED LABS

NEXUS

TOTAL LAB AUTOMATION
MADE ACCESSIBLE

Lab size	Small	Mid-size	Large
Throughput	Low	Mid-range	Large
Automation	Semi-automation	Full automation	Full automation
Type	Bench-top	Bench-top or floor standing	Bench-top or floor standing
Footprint	Super compact	Compact	Compact/Medium
Look out for this symbol	AE	VE	NE

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