

LAURA XL[®]

Fully Automated Urine Chemistry and Sediment Analyzer



Revolutionizing Urinalysis

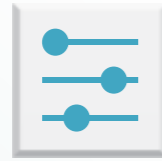
A product of **Erba Europe**

Complete walk-away and hybrid system

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



125 - 160 tests/ hr



10 chemistry parameters



16 automated segment categories



20 manual categories

Laura XL gives a completely new dimension to Urinalysis. Its user-friendly features simplify physical, chemical and sediment analysis, making it a preferred choice for high workload laboratories.

Error-free Physical Analysis

Every sample is automatically checked for colour and clarity, thereby eliminating subjective variances due to visual interpretation.

Complete Chemical Analysis

The photometric urine strip reader in Laura XL aids in precise determination of a wide range of analytes through Erba's standardized test strips Dekaphan® Auto:

- Specific Gravity (SG)
- Leukocytes (LEU)
- Nitrites (NIT)
- pH
- Proteins (PRO)
- Glucose (GLU)
- Ketones (KET)
- Bilirubin (BIL)
- Blood (BLD)
- Urobilinogen (UBG)

The Colour Matrix Definition Technology guarantees accuracy of evaluation of strip.

Easy Sediment Analysis

Laura XL employs the principle of digital microscopy with the latest Artificial Intelligence technology, to auto-recognize the widest range of urine sediments:

- White Blood Cells (WBC)
- White Blood Cell clumps (WBCc)
- Red Blood Cells (RBC) - classification of dRBC and subclasses
- Squamous epithelium (SQEP)
- Non-squamous epithelium (NSE)
- Hyaline casts (HYA)
- Pathological casts (CAST)
- Calcium oxalate (CaOX)
- Triple phosphate (TRIP)
- Uric Acid (UA)
- Bacteria - rods (BACR)
- Bacteria - cocci (BACC)
- Yeast (YST)
- Mucus (MUC)
- Sperm (SPRM)
- Unclassified category (UNCC) - comprises deformed particles and other unrecognized elements that can be evaluated manually

15 full viewfield clear and sharp sediment images for each sample and the Intelligent Element Zoom feature allow easy evaluation and labeling of other element types.

Key Features

Fully automated sampling and processing

Homogenization, dispensing onto strips, sedimentation and result evaluation, all done automatically and accurately



High resolution digital images
Reduces the need for additional evaluation by visual microscopy. Images can be easily shared with clinicians for better reporting

Less consumables

Reusable cuvettes lead to cost optimization and less wastage



Gravity sedimentation
Unique centrifugation free technique provides high accuracy and reproducibility

Few drops is all it needs

Requires only 0.9 ml urine for full analysis, suitable for pediatric samples



Small footprint
A compact design that allows enough workspace

User-friendly

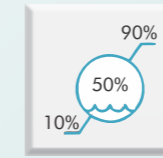
Graphical user interface with touch screen



LIS connectivity
Streamlines data processing and reporting

Active humidity protection

Unique desiccating system for on-board stability



Huge memory
Storage capacity of more than 5,00,000 results

A product with **EUROPEAN QUALITY**



Technical Specification

System Information

Analytical Modes

Chemistry only 160 tests/h
Sediment only up to 125 tests/h
Hybrid up to 125 tests/h

Memory

>500,000 results (incl. controls)

Minimal Sample Volume

Primary tube 2 mL
Micro tube 0.9 mL

Sample Loading Capacity

120 samples (10 tubes x 12 racks)

Supported Barcodes

Code 128 (A, B, C), 39, 93, Codabar, Interleaved 2/5

Interface

ASTM (RS323 + LAN), USB

Working Conditions

Temperature 16 – 30 °C
Humidity 0 – 90 % RH
(non condensing)

Dimensions

Width 943 mm
Depth 675 mm
Height 563 mm
Weight 70 kg

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, CRY, BACR, BACC, YST, MUC, UNCC

Units

N/ μ L; N/x μ L; Microscopy units, Total counts

* Specifications are subject to change without prior notice.

CODE	PRODUCT NAME	QUANTITY
165467	LAURA XL	1 unit
132419	DEKAPHAN Auto	100 strips
132399	OPTISOL	80 ml

Transasia - Erba Group

Global Footprint



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