

IVD Systems & Automated
Clinical Diagnostic Analyzers

Adaltis is proud to present:

The NEW **Personal LAB™**



Bringing Green Innovation
to Diagnostic



RELIABLE LABORATORY DIAGNOSTIC SYSTEMS

Personal LAB™

FULLY AUTOMATED 2 MICROPLATE ANALYZER

The new Personal Lab,(Plab) is an integration between our unique extensive expertise and information gathered from thousands of installations. The new Plab is innovative both in hardware and software while combining state of the art rich Italian design.

The New Personal Lab is a compact desktop analyzer, noiseless and reliable. It is designed to simultaneously process two microplates with multiple assays per plate using **Immune-Enzymatic Analysis**.

New, easy to use interface enables you to program almost all the protocols of ELISA assays currently available on the market.



HIT
A HOME RUN
WITH YOUR
PERSONAL LAB:
A RELIABLE PLATFORM
FOR YOUR AUTOMATED
MICRO ELISA
TESTING



Each compact workstation consist of:

✓ Sample Station

Samples can be identified by reading **bar-code** using a special optical pen. There are different types of racks, in order to satisfy the several needs of each user:

- rack with 50 test tubes diameter 16 mm
- rack with 50 test tubes diameter 12 mm
- rack with 96 test tubes diameter 12 mm
- rack with 78 test tubes diameter 14 mm

The test tubes specifications that are compatible with the New Personal Lab:

- height: from 55 to 100 mm.
- diameter: from 12 to 16 mm.

✓ Plate Housing

The plate housing is designed for simultaneous process of analyzing two microplates. The plate holders are able to perform the vertical shaking with intensity and period programmed by the operator.

During the incubation the plates are placed into two independent chambers, thermally isolated at the temperature programmed by the operator.

MAKE A HEADSTART WITH THE NEW PERSONAL LAB...





Each compact workstation consist of:

✓ Pipetting Station

The pipetting station has of one robotics arm operated by step motors and controlled by both optic and mechanic sensors.

The automatic tip change system and the self-cleaning of the metal needle, with a wash volume programmable by the user, guarantee the absence of interferences due to carry over.

The instrument is equipped with **-PLS- pneumatic level sensor** (patented) for the polymeric tip and a capacity sensor (for the metal needle). The polymeric tip is equipped with a coagulate detection system.

In the event insufficient volume of liquid, the instrument alerts the operator with both acoustic and optic alarms.

The New Personal Lab performs automatic pre-dilution of samples, standards and controls.

✓ Washing Station

The washing station has a 16-channel wash head. Eight channels are dedicated to the wash solution dispensation and eight channels are dedicated to the aspiration.

Cycles, volume and number of washes, are easily programmable by the operator and three wash buffers can be loaded on board at the same time.

- Washing volume: programmable from 100 to 2000 ml.
- Number of cycles: from 1 to 9; soak.
- Time: programmable from 1 sec to 3 minutes.
- Pressure: programmable.

Each protocol can be programmed by the operator with several washes different in terms of cycle, volume, soak time and pressure.

✓ Reading Station

The reading station has a photometer that can be programmed by the operator for reading, with single, double or triple ray. (Vertical reading)

In the case of triple ray (over-range reading), the instrument automatically converts the absorbance values detected at the different wavelengths.

- The filters usually provided: 405 , 450, 492,550 and 620 nm.
- Optional filters: others in the range 400-700 nm, up to a maximum of 8 filters.

The loading area is easily accessible for easy and simple loading activity of reagents, samples and polymeric tips.

The reagents and samples rack are easily removable in order to quickly store the reagents in a refrigerator.

SOFTWARE CHARACTERISTICS

The new user friendly Open Lab™ software guarantees extremely easy programming. 'Open Lab' uses templates that can be completed quickly and intuitively.

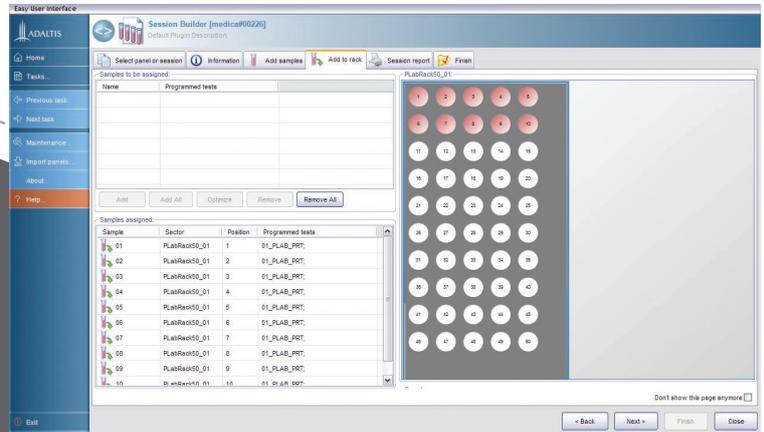
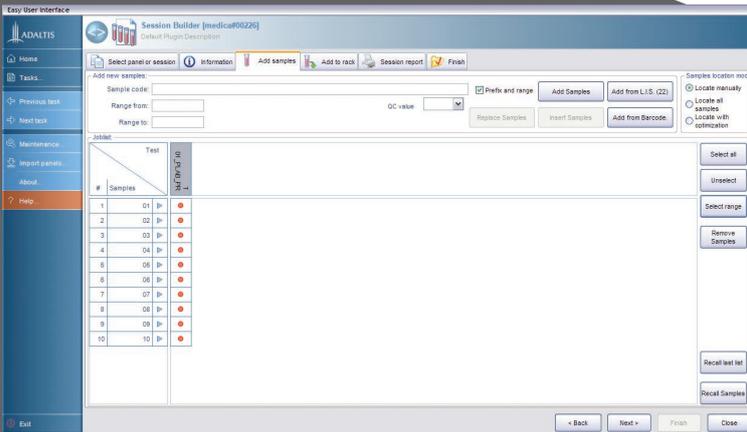
The instrument is a full Open system, and enables addition of new methods.

It is possible to program and store almost unlimited number of protocols (min.), arranged on a panel drawn up by the user according to his needs. Execution is done as individual test or by panel, at random and/or in batches.

The Personal Lab system can be used to carry out both qualitative and quantitative analysis, with suitable quality control operations.

Some of the Personal Lab management software features:

- Automatic management of 1 to 6 assays in a single session
- Creation of job lists
- Customized reports for:
 - tests
 - job lists
 - test results
 - results by sample (restricted to a single session of analysis only).
- History of sessions performed



Cut-off (threshold) method for quantitative and qualitative analysis and interpolation as per the calibration curve is possible using the following methods:

- Cubic Spline
- Point-to-point
- 4 parameters
- Single point
- Linear regression
- Log/Log

Thanks to a powerful, versatile calculation engine (Chem Plus) it is possible to monitor the progress of sessions and the analytical data obtained. Two point recalibration for the quantitative tests are available as well.

Use of the instrument is password-protected, with different levels of access (access to complete programming, access to testing, access to results, etc.).

The New Personal Lab has minimum down time to maximize Lab efficiency:

- Preparation and end-of-work down times: 5 minutes a day
- No Warm-up is required
- Self-diagnosis and alarm procedures are integral part of the P-Lab.

Sample Identification Station

Tubes	Up to 96 positions for tubes 11-12.5 mm diameter, 55 -100 mm height Up to 50 positions for tubes 16 mm diameter, 100 mm height
Label	UPC Version A and E (EAN 8 and 13), Code 39, Interleaved 2 and 5, Code 93, Code-bar, Discrete 2 or 5, Code 128, Code 39 FULL ASCII. The scanner will autodiscriminate between all of the above symbols, except Code 39 and Code 39 FULL ASCII.
Capacity	96/50 samples depending on selected rack
Identification	Maximum 300 samples in appropriate tubes
Reader	CCD Bar Code Reader

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Technical Features

Sera and First Reagent Pipetting Station

Working area	Allows for 2 reading stations
Syringe dilutors	Two dilutors with 1 ml and 5 ml precision syringes
Syringes resolution	3000 steps on max. stroke
Replicate controls/standards	Programmable from 1 to 4
Replicate samples	Programmable from 1 to 8
Precision for serum samples	<2.5% with 10 μ L (CV) <2.0% with 25 μ L (CV) <1.5% with 100 μ L (CV)
Precision for serum samples	<3.0% with 25 μ L (CV) <2.0% with 100 μ L (CV)
Precision for reagents	<3.0% with 50 μ L (CV) <2.2% with 100 μ L (CV)
Serum dispensing time	<14 min. for 96 samples (volume 100 μ L/1 ml washing)
Serum dispensing time	<12 min. for 88 samples (volume 100 μ L)
Reagent dispensing time	<3 min. for 96 wells (volume 100 μ L)
Carryover	a) Disposable tips: none b) Metal needle: dependent on wash volume



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Incubation Station	
Incubation area	Manages 2 microplates at 2 different temperatures
Temperature	Minimum: of 5°C temperature ± or 30 ± 45°C
Stability	± 1°C
Incubation Time	Programmable
Warm-Up	15 minutes
Instrument Dimensions	
Height	53 cm
Depth	63,4 cm
Width	63,8 cm
Weight	75 kg
Electrical Requirements	
Voltage	from 110 to 230V AC ± 10%
Frequency	50-60 Hz
Power	450 VA (typ)
Washing Station	
Washing Volumes	100 to 2.000 µL
Wash Cycles	1 to 9
Soak time	1 second to 2 minutes
Pressure	Low or normal
Photometric Reading	
Working area	Allows for 2 reading stations
Reading range	0 to 3.0 OD
Reading channels	16 (2 x 8)
Reading method	Single, double or double beam with over range filter vertical reading
Reading filters	8 interference filters
Standard Filter Range	405-450-492-550-620 nm, Others (optional)
Linearity	1% (0:2 OD)
Precision	1% (0:2 OD)
Resolution	0.001 OD
Management System	
Computer	1 GByte RAM minimum (PC Pentium with Windows 95 or higher)
Hard disk	500 MegaByte minimum
Keyboard	Alpha/numeric
Printer	Bi-directional, 80 columns
Mouse	Two buttons
Software Features	
Work protocols	Stores up to a maximum of 500 work protocols
Protocol management	Fully automatic
Analysis profiles	1 to 6 protocols per profile
Profile storage	500 profiles maximum
Data processing	Cut-off method for qualitative analysis For quantitative assay interpolation from a calibration curve with the following methods: <ul style="list-style-type: none"> - cubic spline - point to point - 4 parameters - linear regression - spline - lin/log - log/log - single point
Printing	Protocols, profiles, sessions and test results. Customized report.

Adaltis is an international in-vitro diagnostic company headquartered in Guidonia (Rome), Italy.

Adaltis develops, manufactures and markets in-vitro diagnostic systems and reagent products to detect viral infections, diagnose immune system diseases, and measure human hormone responses.

Adaltis automated analyzers are ideal for small to mid-sized laboratories and include **Personal Lab™**, a 2-plate automated micro plate analyzer, **NexGen Four™**, a 4-plate automated micro plate analyzer and **ECLECTICA™**, a compact random access analyzer for immunoassay and clinical chemistry.

All our instruments manufactured with excellent performance with dedicated support for application and technical service.

ADALTIS is **ISO 9001** and **ISO 13485** certified and all our products are **IVD-CE** marked.

Our team is dedicated to customer satisfaction, and will do the utmost to respond quickly to your needs.

Our Customer Care Center can be reached via e-mail: info@adaltis.net

For technical assistance, please contact e-mail: service@adaltis.net

Sales and Marketing Office e-mail: sales@adaltis.net

Order handling and Logistics e-mail: order@adaltis.net

We look forward to an exciting and jointly profitable future with partners like you.

For more information, you may contact us directly or visit our new website at

www.adaltis.net / www.adaltis.com

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