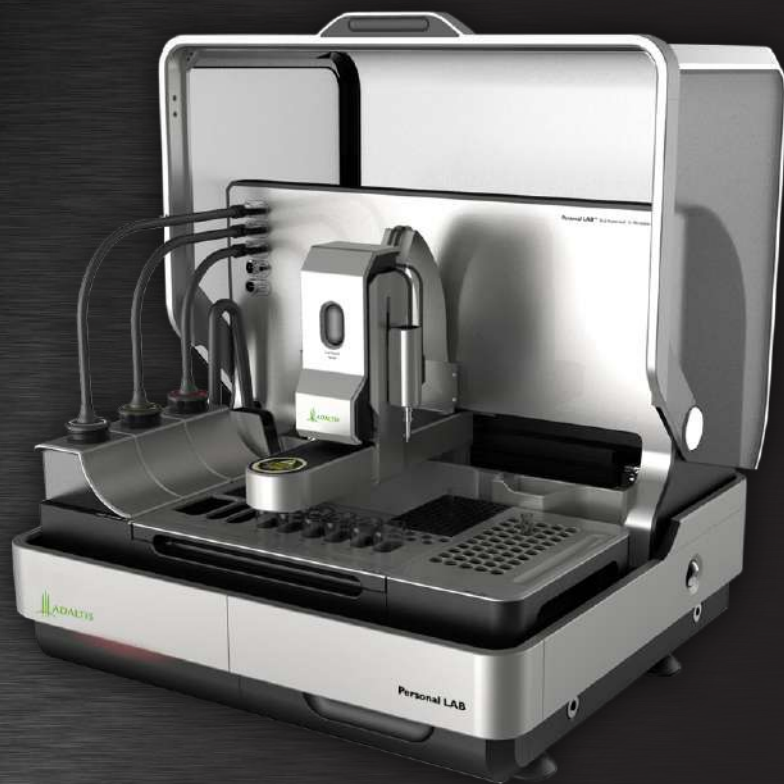


Personal LAB

Fully Automated 2 Microplate Analyser



The new Personal LAB is an integration between our unique extensive expertise and information gathered from thousands of installations.

The new Personal LAB is innovative both in hardware and software and extensive array of reagents.

The New Personal LAB is a compact desktop analyser, noiseless and reliable.

It is designed to simultaneously process two microplates with multiple assays per plate using Enzymatic Immune Analysis.

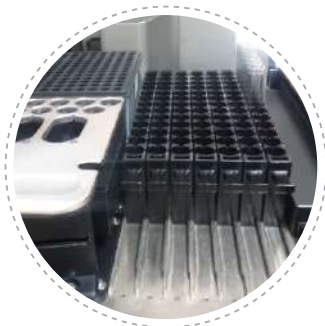
The new, easy to use interface enables you to program almost all the protocols of microELISA assays currently available on the market.

The reliable
platform
for your
automated
microELISA
testing



RELIABILITY & INNOVATION

Personal LAB



Sample strip loading rack with bar code reader (left side)

Sample Station

The new featured sample identification enables genuine positive sample identification of samples (PSID) via an integrated bar code facility.

This new feature, in combination with the new sample strip loading facility results the most reliable sampling, sample identification and matching test results.

The new PSID functionality makes your Personal LAB even more complete and will maintain its leading position for mid-sized automated microELISA instruments.

In addition to the sample strip loading, the samples can still be loaded via different racks that are available to satisfy the need of every user:

- rack for 50 test tubes with diameter 12-16 mm
- rack with 96 test tubes diameter 12 mm
- sample strip loader for 91 test tubes with diameter 12-13.5 mm

The test tubes specifications that are compatible with the Personal LAB:

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



Fully Automated 2 Microplates Analyser



Fully Automated 2 Microplates Analyser

Pipetting Station

The working platform 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 clot detection system.

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

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

Incubation Chambers

The plate housing is designed for simultaneous processing of 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.

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.

Washing Station

The washing station has a 16-channel wash head. Eight channels are dedicated to the wash solution dispensing 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: programmable from 1 to 9 cycles.
- 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.

Personal LAB

Sample Station

Tubes	- Up to 96 positions for tubes 12-16 mm diameter, 55 –100 mm height - Up to 50 positions for tubes 16 mm diameter, 100 mm height - Up to 91 positions for tubes 12-13.5 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 discriminate between the symbols, except Code 39 and Code 39 FULL ASCII
Loading capacity	96/91/50 samples depending on the selected rack or sample strip loading
Sample Identification	Positive Sample Identification (PSID) by built-in bar code reader and dedicated sample loading facility
Sample loading	Choice between different types of sample rack, or the new featured sample strip loading

Incubation Station

Incubation area	Manages 2 microplates at 2 different temperatures
Temperature	At least 5°C higher than the room temperature or 30°C ÷ 45°C
Stability	± 1°C
Incubation Time	Programmable
Warm-Up	15 minutes



Pipetting Station

Working area	Manages 2 microplates independently
Syringe dilutors	Two dilutors with 1 ml and 5 ml precision syringes
Syringes resolution	4000 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 10µL (CV) <2.0% with 25µL (CV) <1.5% with 100µL (CV)
Precision for serum samples	<3.0% with 25µL (CV) <2.0% with 100µL (CV)
Precision for reagents	<3.0% with 50µL (CV) <2.2% with 100µL (CV)
Serum dispensing time	<14 min. for 96 samples (volume 100µL/1 ml washing) using metal needle
Serum dispensing time	<12 min. for 88 samples (volume 100µL) using disposable tips
Reagent dispensing time	<3 min. for 96 wells (volume 100µL)
Carryover	a) Disposable tips: none b) Metal needle: dependent on wash volume



Fully Automated 2 Microplates Analyser

Washing Station	
Washing Volumes	100 to 2,000 μ L
Wash Cycles	1 to 9
Soak time	1 second to 3 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 methods	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, (other filters optional)
Linearity	1% (0:2 OD)
Precision	1% (0:2 OD)
Resolution	0.001 OD
Instrumentation Dimensions	
Size	Width 64 cm, Depth 64 cm, Height 53 cm
Weight	75 kg
Electrical Requirements	
Voltage	from 110 to 230V AC $\pm$ 10%
Frequency	50-60 Hz
Power	450 VA (typical)
Operator Console	
- Standard PC with Windows XP/7, PC-monitor (both not included, but are optional) - Dedicated Personal LAB operational software	



Personal LAB





Personal LAB Software Characteristics

The Open LAB system can be used to carry out both qualitative and quantitative analysis, with suitable quality control operations. The user friendly Open LAB software guarantees unique easy programming experience for each operator.

The flexible Open LAB software enables easy addition of new methods. It is possible to program and store almost unlimited number of protocols, 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. Open LAB uses templates that can be completed quickly and intuitively.

Features of Personal LAB software are among others:

- Automatic management of 1 to 6 assays in a single session
- Creation of job lists
- Customised 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

Personal LAB is password protected with different levels of access (access to complete programming, access to testing, access to results, etc.).

By using the versatile 'Chem Plus' calculation engine, it is possible to monitor the progress of sessions and the analytical data obtained from or during running the tests.

Two point recalibration for the quantitative tests are available as well.

The **Personal LAB** has minimum down time to maximise your laboratory efficiency:

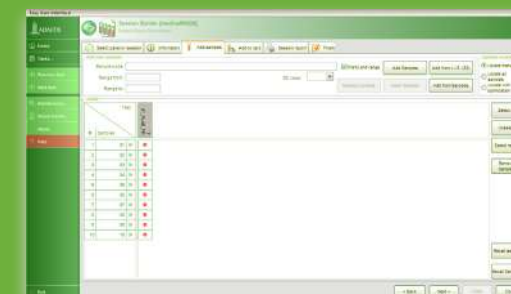
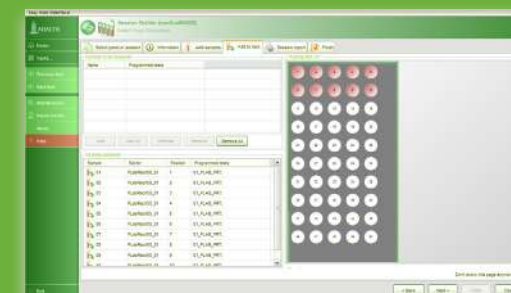
- Preparation and end-of-work down times: 5 minutes a day
- No Warm-up is required
- Self-diagnosis and alarm procedures are an integral part of the Personal LAB.

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: ■ cubic spline ■ point to point ■ 4 parameters ■ linear regression ■ spline ■ lin/log ■ log/log ■ single point
Printing	Protocols, profiles, sessions and test results. Customised reports.



Dedicated and user-friendly software warrants your simplified routine and hassle free operation of the instrument, every time



EIAgen

MicroELISA Assay Product Line

The EIAgen line is a complete range of microplate assays able to satisfy the requirements of the most demanding laboratories.

- The excellent quality of Adaltis products, outstanding performance and ease of use, make the EIAgen assays the best solution for every laboratory.
- The EIAgen assays are completely automated on Personal LAB instrument. All application protocols have been validated and approved.
- Almost all assays include reagents that are ready to use and have a shelf life of **at least** 12 months. EIAgen assays use TMB substrate 'Blue Star' for a stable colour development of the assay.

Our wide offer of assays includes the following lines:

- ToRCH
- Retrovirus
- Hepatitis
- Syphilis
- Gastric Function
- Mononucleosis
- Vitamins
- Autoimmunity
- Virology
- Tropical Disease
- Hormones / Tumour Markers



For more information

WWW.ADALTIS.NET

Customer Care Center:
e-mail: info@adaltis.net

Technical Assistance:
e-mail: service@adaltis.net

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

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

Legal Registered Office
Via Durini, 27
20122 Milano, Italy

Tel: + 39 0774 5791
Fax: + 39 0774 353085

Adaltis S.r.l. Headquarter
Production and
Development Plant

Via Luigi Einaudi 7
Guidonia di Montecelio
00012 Rome, Italy