



Advanced
Automation
in
Molecular
Biology

AMPLIlab is an open platform intended for performing rapid, accurate Polymerase Chain Reaction (PCR), meanwhile real-time measuring nucleic acid signals from DNA-binding fluorescent dyes or labeled probes and converting them to comparative quantitative readouts of DNA or reverse transcribed RNA.

AMPLIlab



Fully-automated Molecular Diagnostics Instrument for Clinical Diagnostics
Real-time PCR System for Molecular Biology Analysis

- ABSOLUTE QUANTIFICATION
- RELATIVE QUANTIFICATION
- GENOTYPING
- END POINT FLUORESCENCE
- MELTING CURVE ANALYSIS



AMPLi[®]lab

Fully automated medical PCR analysis system. This product has many advantages such as scientific and efficient temperature control system and optoelectronic system, powerful and easy-to-use software analysis functions, and humanized control methods. Easy to implement downstream multiple gene detection, quantitative analysis, SNP analysis, HRM analysis and other applications.

4-channel synchronous detection

Four kinds of conventional excitation and detection channels, compatible with most fluorescent dyes and probe types, enabling detection of absolute quantification, relative quantification, and genotyping; introduction of the FRET (Fluorescence Energy Resonance Transfer) channel enables users to have low fluorescence background values. The need for high-sensitivity detection makes detection more convenient, professional and accurate.

Diversified operation methods

Based on the one-to-one control of the classic external computer, it has creatively introduced the remote operation of the local area network and local operation mode of the instrument. The built-in 10.4-inch touch screen is equipped with self-developed control software, experimental settings, real-time monitoring of experiments, and instrument settings.

High sensitive and precise optical system

The fluorescence excitation light source adopts the bright long-life LED, and the fluorescence detection system is maintenance free.

The optical system is located on the upper part of the instrument. During operation, the top is excited and scanned. There is no need to worry about the adverse effects of dust in the vent post.

The compact and scientific and logical optical system integrates four fluorescence detection channels to achieve a number of technological breakthroughs. At the same time, it increases the temperature control to ensure the accuracy and stability of fluorescence detection.

It takes only 7 seconds to complete a one-by-one scan of 96 channels of 4 fluorescence channels, with high efficiency and no fluorescence edge effect.

Accurate and efficient temperature control system

Based on the Peltier effect, six semiconductor cooling sheets are arranged under the Block. The temperature uniformity, accuracy, and temperature rise/fall rate are all significantly improved, shortening the experimental period, realising the temperature gradient function, eliminating the need for annealing temperatures in the past. Repeatedly explored to improve the efficiency of the experiment.

Powerful and complete software features

According to the needs of users in different industries AMPLIlab has various function modules such as absolute quantification, relative quantification, SNP analysis, HRM analysis, etc. The custom report template function highlights the fine and professional detection reports. The right management function further protects your experimental data and ensure data security.

Reserve fully automated features

The sample bin can be ejected and closed by software control, leaving an interface for the loading of the PCR plate in the fully automatic nucleic acid detection workstation at the later stage. The open LIS port is compatible with the current mainstream LIS system and serves as a station for sample information and experimental data, conduction and integration to make technical preparations.

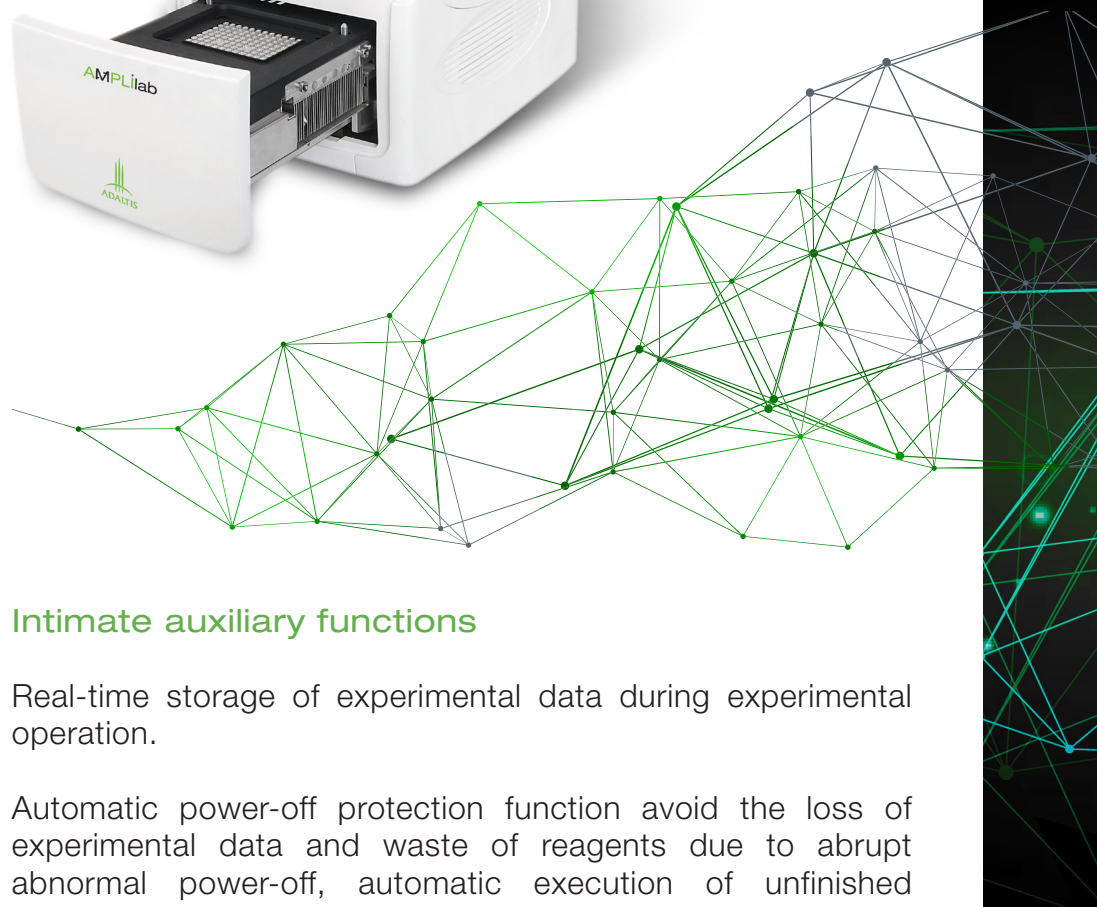


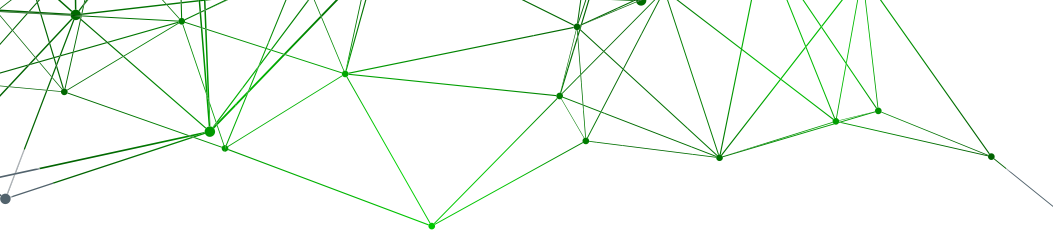
Intimate auxiliary functions

Real-time storage of experimental data during experimental operation.

Automatic power-off protection function avoid the loss of experimental data and waste of reagents due to abrupt abnormal power-off, automatic execution of unfinished experiments after power restoration, and the formation of a complete experimental data report.

With the intelligent troubleshooting function, the system can intelligently determine the type of fault and provide the scope of maintenance and inspection, which facilitates the later maintenance of the equipment.





EASY-TO-USE SOFTWARE

- Friendly interface and clearly functional modules design, first-time users can easily start a new experiment
- All experiment data and setting options are shown conveniently on a single interface

INSTRUMENT MANAGEMENT & DATA TRANSMISSION

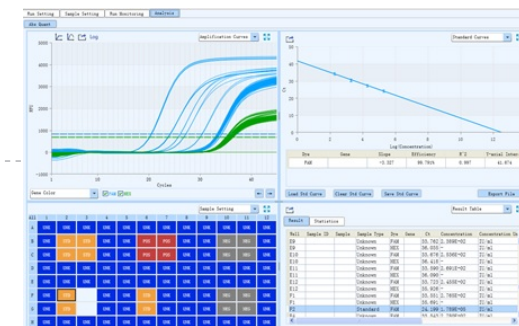
- Instrument management allows you to manage all the AMPLIlabs in the WLAN
- More than thousands results can be stored in the device
- USB or WLAN easily transfer experiments data anywhere you need
- All running information in one screen, intuitively and simply

EXPERIMENTS MANAGEMENT

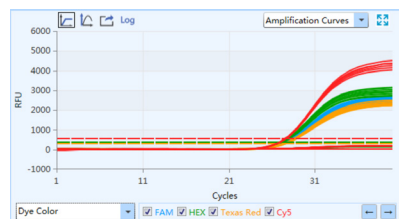
- Multi-options to start an experiment:
New, New for Existed, Open data file, Double click data file
- User can define the experiments name for documentation
- User can define the data storage directory by himself
- Pre-installed templates can help user more easier to edit the protocols

DATA ANALYSIS

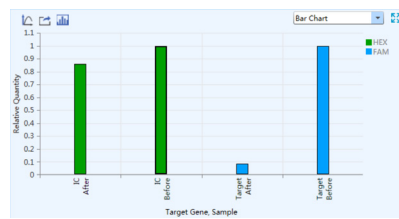
- Optional baseline setting: Automatic or Manual
- Multi-option analytical method for different requirements:
Automatic or Manual threshold method, normalization method
- Reference Dye analysis



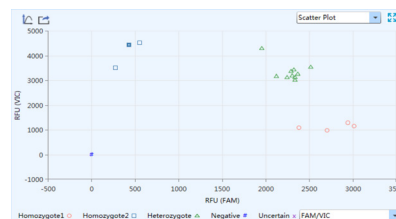
MOST COMPREHENSIVE DATA ANALYSIS - Multiple analysis methods available



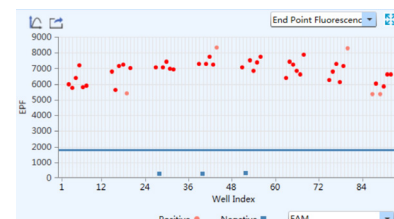
Absolute Quantification



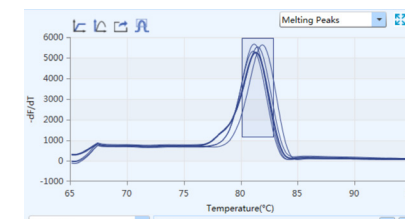
Relative Quantification



Genotyping



End Point Fluorescence

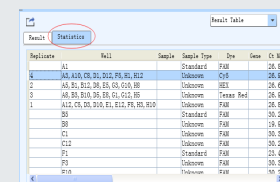


Melting Curve Analysis

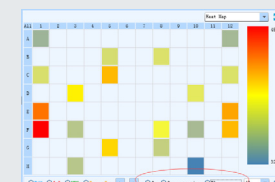
TECHNICAL SPECIFICATIONS

Block type	Peltier
Sample capacity	96 wells
Reaction volume	0-100 ul
Consumable	0.2mL PCR tube, clear tube cap
Heating/Cooling method	Peltier
Temperature range	0° - 100°
Temperature accuracy	± 0,1 °C
Temperature uniformity	± 0,1 °C
Excitation light source	LED light sources
Detect system	Photodiodes
Detection method	4 channels scanning at the same time, no edge effect
Dye	FAM/SYBR Green I/SYTO9/EVA Green/ LC Green; VIC/HEX/TET/JOE; ROX/Texas Red; Cy5
Sample linearity	/r/ ≥ 0.999
Sample repeatability	Ct value CV ≤ 0.5%
Sample dynamic range	1-1010 copies
Control modes	10,4" Touch screen, PC direct control, WLAN control
Power failure protection	Automatically start running experiment after power supply, no need wait PC software
LIS connection	CSV, Excel, TXT format data output open port for LIS connection
PC operating system	Win 7, Win 10
Power usage	AC 100 to 125 V/200 to 240 V (50/60 Hz)
Power consumption	900VA
Work environment	Temperature 10°C-30°C, Humidity: 20%-85%
Footprint	355mm X 480mm X 485mm
Weight	30kg
Product code	ALB01

- Statistics analysis: Replicate, Gene types
- Heating map options: Ct, Concentration, Flurescence
- LIS connectivity, can export CSV, Excel and Txt format
- Row data and results can export in Excel format



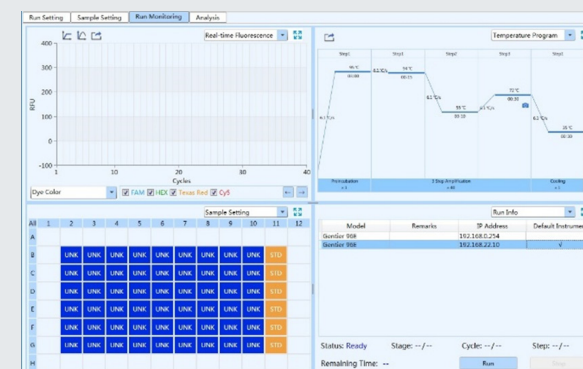
Statistics analysis



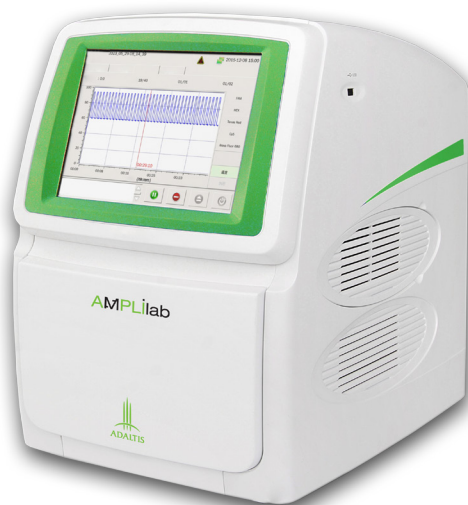
Heating map



- Standard with 10.4" or 7" LCD touch screen, functions quickly accessible through simple, one-touch commands
- Wizard operation to lock and unlock the transport locker
- Message alarm indicate the status of the machine
- USB port update software and firmware
- Unique power-off protection function can save all the setted configurations for sudden power outages, and allow the experiment continues when power supply is restored.



Real-time PCR System Configuration



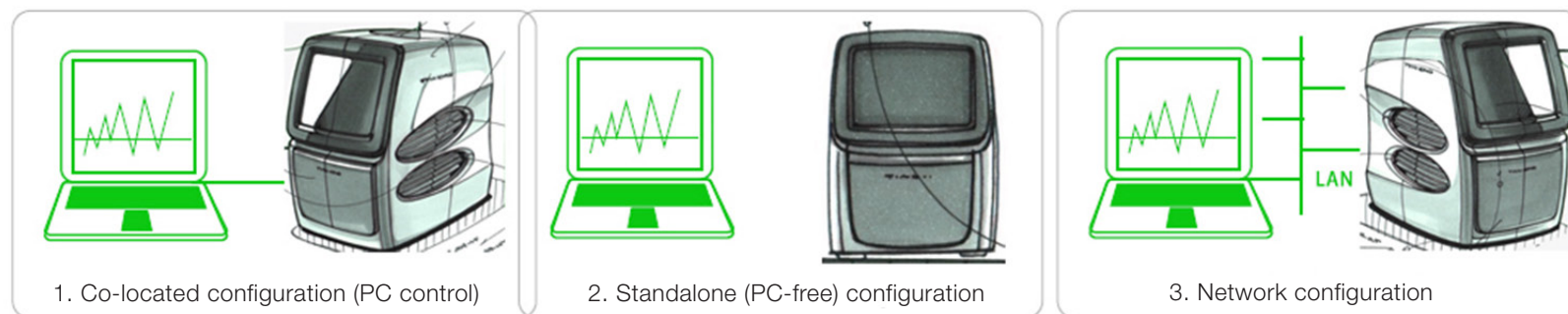
Model	Sample	Channel	Gradient
AMPLIlab	96	4	Yes

CH1	CH2	CH3	CH4
FAM SYBR Green I SYTO 9 EvaGreen LC Green	HEX VIC TET JOE	Texas Red ROX	Cy5

Designed for Flexible Use

System can be installed in three distinct configurations, providing unmatched flexibility and convenience.

1. Co-located configuration (PC control)
2. Standalone (PC-free) configuration (Data can be export by USB and analysis on PC)
3. Network configuration (PC software automatically detect all systems in LAN and allow to remote monitoring one of experimental progress and downloading of the completed run file to the PC at your desk, one PC can control maximum 10 instruments)



MOLgen

Molecular diagnostic panels and reagent kits for nucleic acid extraction and RT-PCR of infectious diseases and genomics

Standardised
and easy
approach
to PCR
Diagnostics

The diagnostic kits of MOLgen series were developed for detection, confirmation and genotyping of infectious and genetics diseases by Real-Time PCR. The proprietary development enable us to provide you with a standardised, simple and readily reproducible procedure.

We provide convenient solutions in reagent configuration such as lyophilised, ready-to-use mixtures with a long shelf-life and the possibility to ship the kits at room temperature.

MOLgen line kits are CE marked.

- NUCLEIC ACIDS UNIVERSAL EXTRACTION
- SAMPLE VALIDATION
- HUMAN IMMUNODEFICIENCY VIRUS (HIV)
- BLOOD-TRANSMISSIVE INFECTIONS
- HEPATITIS
- TUBERCULOSIS
- TICK-BORNE INFECTIONS
- GASTROINTESTINAL INFECTIONS
- HUMAN HERPES VIRUSES
- TORCH INFECTIONS
- SEXUALLY TRANSMITTED INFECTIONS (STI)
- MULTIPLEX DETECTION OF STI
- HUMAN PAPILLOMA VIRUSES (HPV)
- VAGINAL BIOGENOSIS AND MICROFLORA
- CANDIDIASIS
- GENETICS





For more information

WWW.ADALTIS.NET

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

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

Legal Registered Office
Via Durini, 27
20122 Milano, Italy

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

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

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

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

Via Luigi Einaudi 7
Guidonia di Montecelio
00012 Rome, Italy

ADALTIS is certified in compliance with ISO9001 and ISO 13485.
Our products are CE-IVD.

