



MOLECULAR DIAGNOSTICS

Advanced
Automation
in
Molecular
Biology

EXTRAlab is a liquid handling workstation designed to perform Nucleic Acid extraction and PCR set-up in clinical laboratories, which stands out for high flexibility as it can run a variety of protocols in molecular biology and genomics.

The workstation allows to run a fully automated procedure to extract nucleic acids from any kind of sample and to set-up extracted samples for PCR/qPCR, with minimal or no operator intervention.

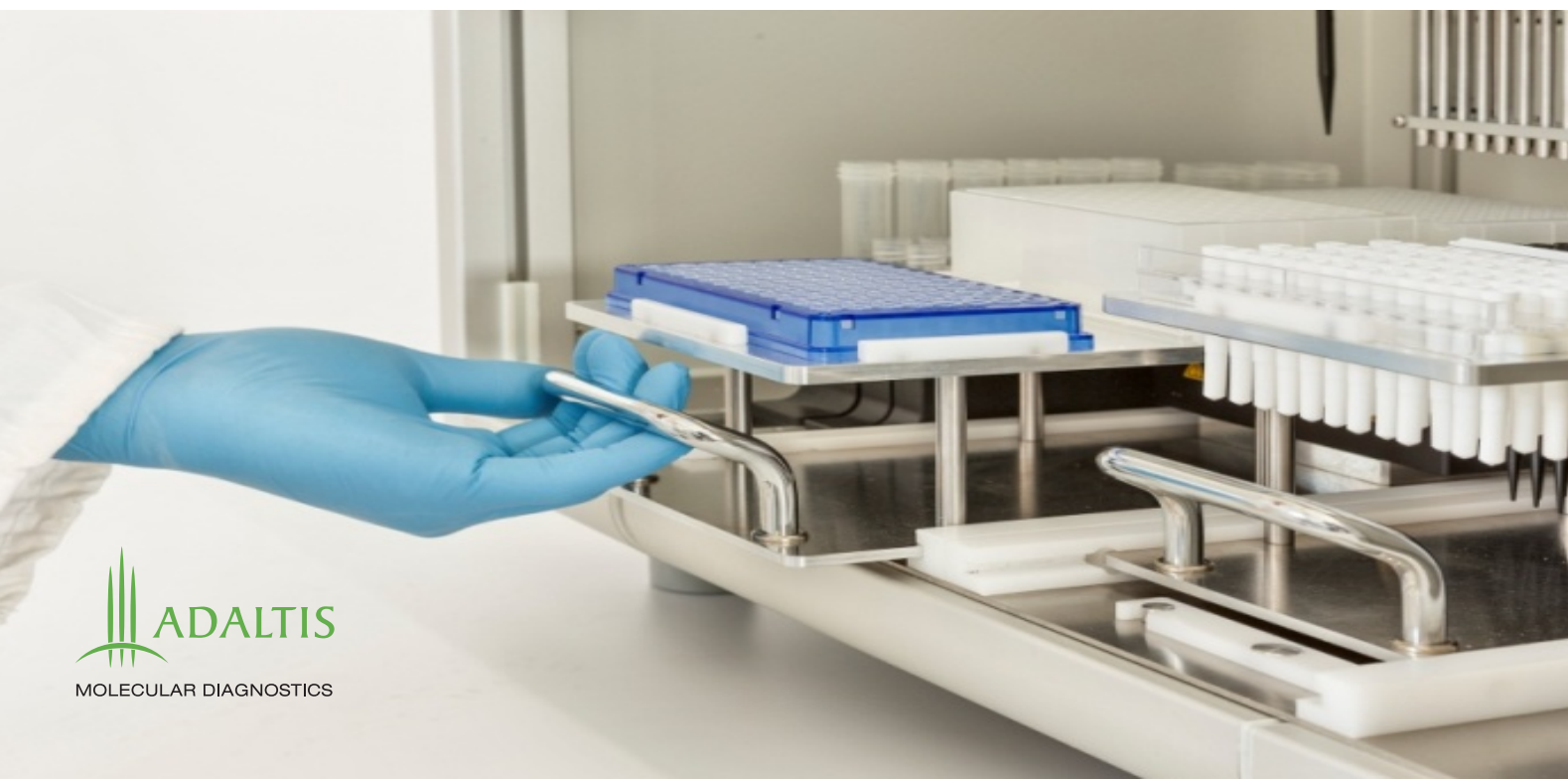
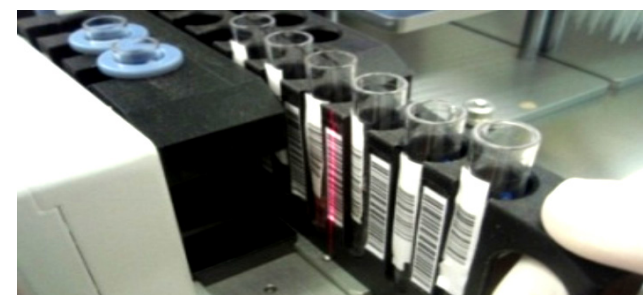
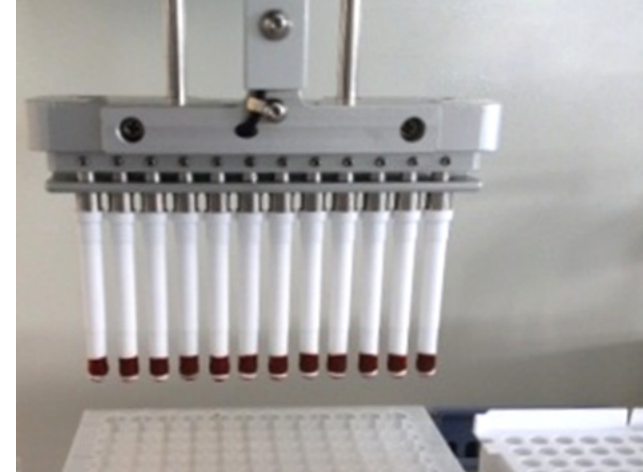
EXTRAlab



Fully-automated Molecular Diagnostics instrument for clinical diagnostics
A workstation for Nucleic Acid extraction and PCR set-up

- Nucleic Acids DNA / RNA Extraction
- PCR Purification
- PCR/qPCR Set-Up

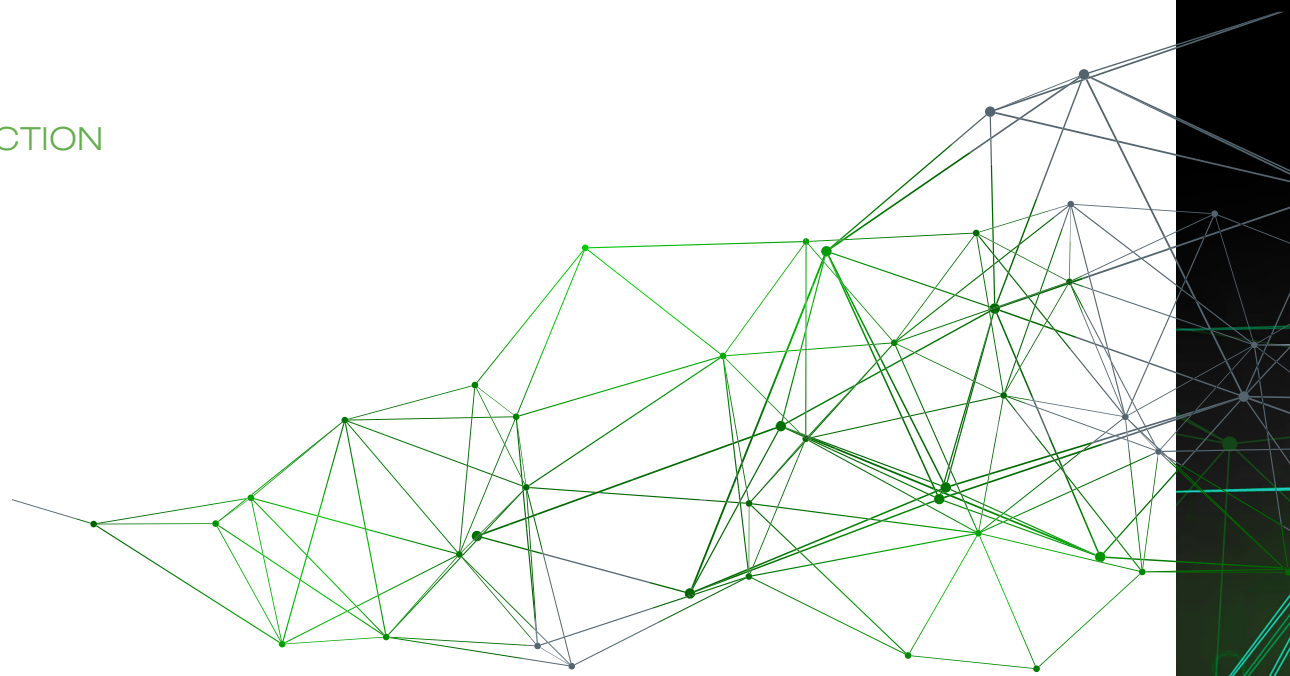




EXTRAlab

SAMPLE PROCESSING, NUCLEIC ACID EXTRACTION
AND DOWNSTREAM ANALYSIS IN ONE STEP

- ✓ Nucleic Acids DNA/RNA extraction
- ✓ Purification of amplified PCR
- ✓ Set-up PCR/qPCR

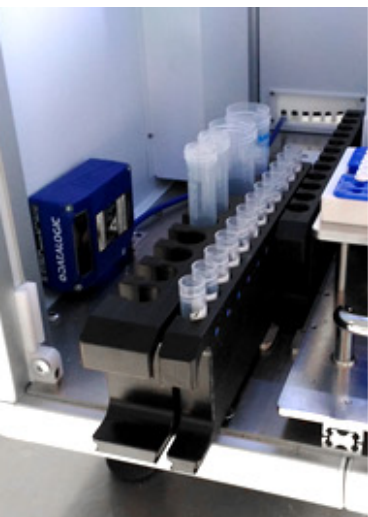


MAIN FEATURES & BENEFITS

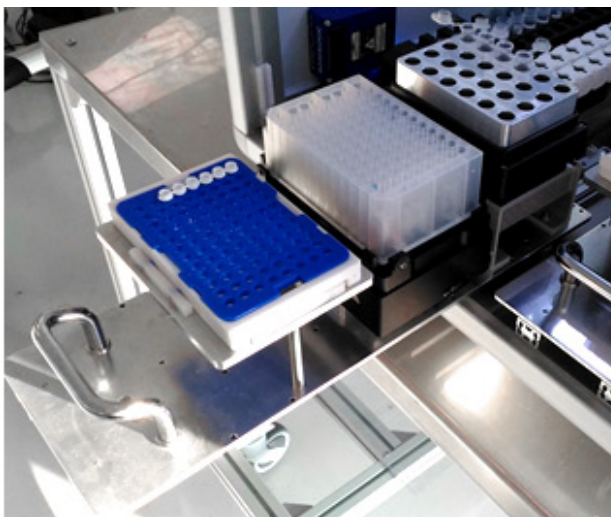
- Modular design - additional devices can be integrated
- Samples and reagents traceability with bar-code reader
- Reagent rack with autonomy up to 48 samples
- Time for the extraction: 48 samples - 118 minutes, PCR set-up - 22 minutes
- Elution volume: from 40µl to 200µl
- Possibility to use different protocols with auto-sampling, aliquoting and PCR set-up
- Easy to clean and disinfect steel surface working area (UV lamp)
- Precision and repeatability of dispensing
- No cross contamination
- User-friendly software
- Wide range of customisable protocols
- Quick programming of every applicable protocol
- Easy protocol selection from libraries
- Remote monitoring of activities
- Customised configuration
- Decrease of human errors and infectious risk
- CE-IVD process



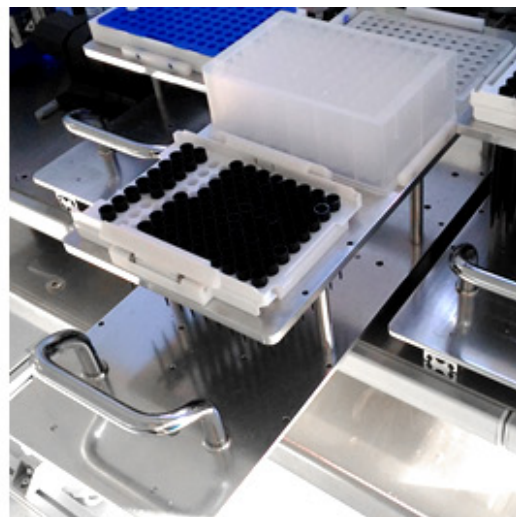
EXTRAlab



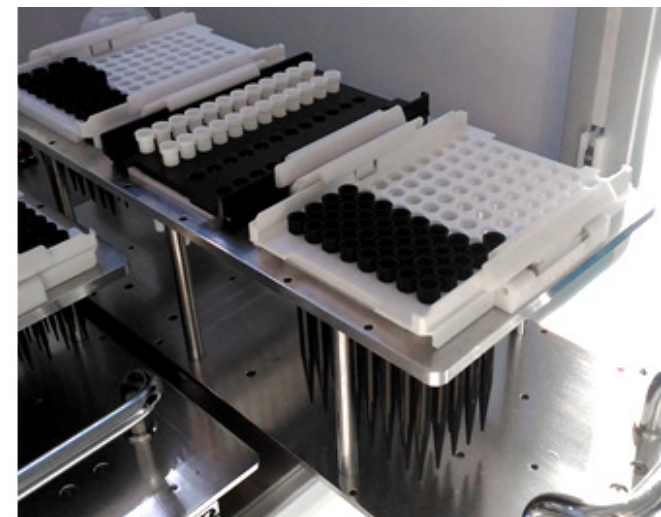
Ready to use reagents and up to 48 samples charging, integrated barcode reading for sample traceability.



Removable rack with temperature controlled zone for dedicated reagents (heating and cooling unit), thermoshaker (for sample lysis and elution) and PCR set-up plate.



Removable rack with washing step plates.



Removable rack with different sized tips and sheaths for the magnetic head.

TECHNICAL SPECIFICATIONS

Multifunction robotic arm

Liquid handling tool

Magnetic tool with 24 parallel magnetic rods, suitable for all magnetic beads

PCR onboard mix preparation and PCR Plate setup

Dispensing system

Pipetting via disposable conductive tips (with filters)

Capacitive liquid level sensing system

Volume range: 1÷ 1000µL

CV < 0.2% at full stroke

Units included

Deck layout compatible with SBS standard

Integrated Barcode Reader

Thermal shaker (RT÷95°C; 100÷2500 rpm)

Cooling unit (4÷70°C)

UV light: 254nm (UV-C) - power 14W, life >1000h

Waste drawer

Additional device on request

Thermal cycler (as a stand alone instrument)

Consumables

- 2mL deepwell for lysis and elution
- 2mL deepwell for magnetic bead washing
- Primary tubes 16mm + 13mm + Eppendorf
- Conductive tips with filter (50µL, 200µL, 1000µL)
- Magnetic rod covers for bead transfer
- PCR tubes holder

Control system

Internal control system and remote monitoring through HMI software PC and integrated touchscreen display

Tracking of samples with integrated database

Power input

Single phase, 350W, 120÷250Vac, 50/60Hz

Dimensions

Unpacked:
800(W) x 752(D) x 731(H) mm / Weight: 96.5 kg

Packed:
920(W) x 872(D) x 888(H) mm / Weight: 125 kg

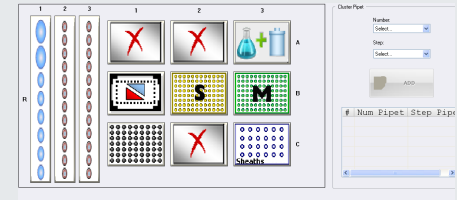


SOFTWARE

EASY & INTUITIVE PROTOCOL GRAPHIC EDITOR

CONFIGURATION, PROGRAMMING & MONITORING SOFTWARE

- Easy-to-use editor for quick programming
- Pre-set work cycles for different protocols
- User-friendly interface
- Sample traceability remote monitoring



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



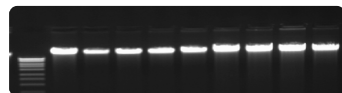
The Diagnostic kits of MOLgen series were developed for detection, confirmation and genotyping of infectious and genetics diseases by Real-Time PCR. The proprietary development enable us to provide you with a standardised, simple and readily reproducible procedure.

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.

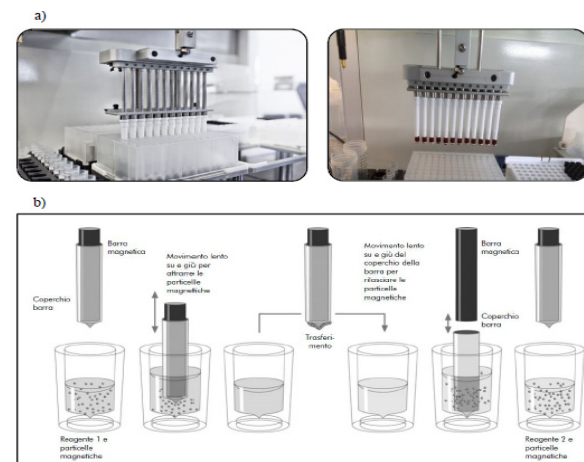
- NUCLEIC ACIDS UNIVERSAL EXTRACTION
- SAMPLE VALIDATION
- MULTI-RESPIRATORY & **SARS-CoV-2**
- HUMAN IMMUNODEFICIENCY VIRUS (HIV)
- BLOOD-TRANSMISSIVE INFECTIONS
- HEPATITIS
- TUBERCULOSIS
- TICK-BORNE INFECTIONS
- GASTROINTESTINAL INFECTIONS
- HUMAN HERPES VIRUSES
- TORCH INFECTIONS
- SEXUALLY TRANSMITTED INFECTIONS (STI)
- MULTIPLEX DETECTION OF STI
- HUMAN PAPILLOMA VIRUSES (HPV)
- VAGINAL BIOECENOSIS AND MICROFLORA
- CANDIDIASIS
- GENETICS

EXTRA^{lab} Results

High yield , purity and integrity of the nucleic acid extract



Starting Matrix	Yield Average (µgDNA/sample)	Purity Average (OD 260/280 nm)
Blood/saliva (200 µl)	~7 µg	1.9
Liver (15mg)	~60 µg	1.9
Lung (15mg)	~60 µg	1.9
Brain (15mg)	~70 µg	1.9
Kidney (15mg)	~40 µg	1.9
FFPE Brain (3 sect. da 5µm)	~1 µg	1.9



Extraction > PCR Purification > PCR set-up



For more information

WWW.ADALTIS.NET

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

