ADALTIS

MOLECULAR DIAGNOSTICS

EXTRAlab is a liquid handling workstation 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 Real-Time PCR, with minimal or no operator intervention.

Advanced Automation in Molecular Biology

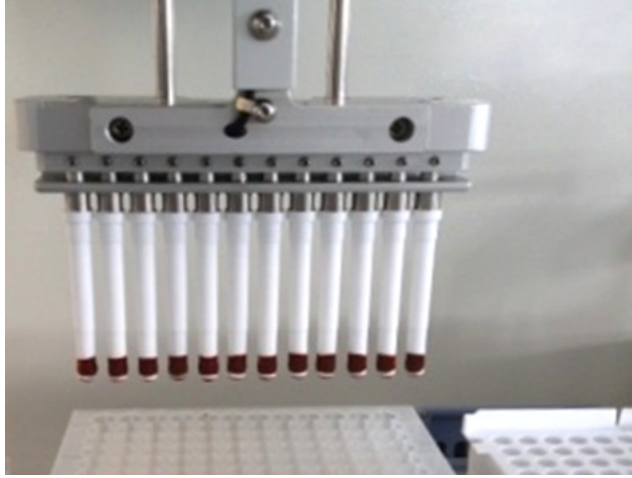
EXTRAlab

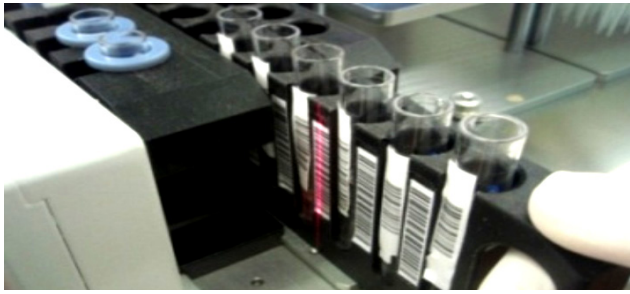
NEW

Fully-automated Molecular Diagnostics instrument for clinical diagnostics

A workstation for Nucleic Acid extraction and PCR set-up

- NUCLEIC ACIDS DNA / RNA EXTRACTION
- REAL-TIME PCR SET-UP
- GENETICS



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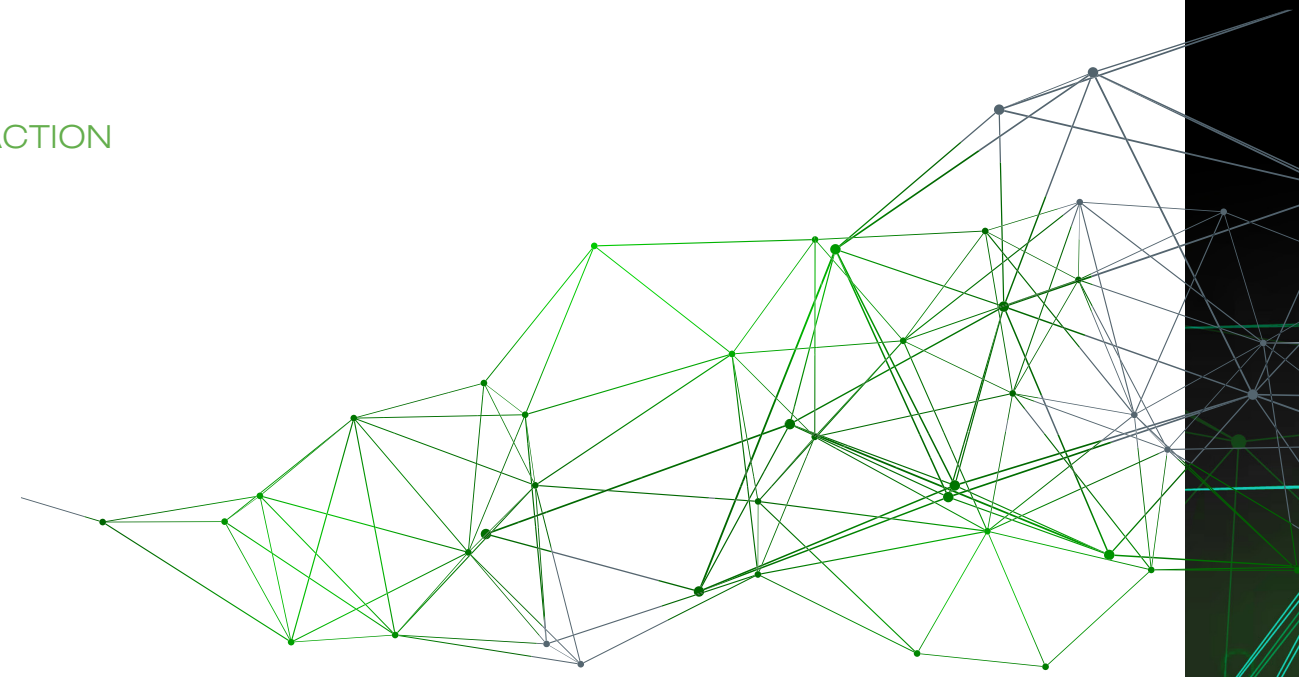
MOLECULAR DIAGNOSTICS

EXTRAlab

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

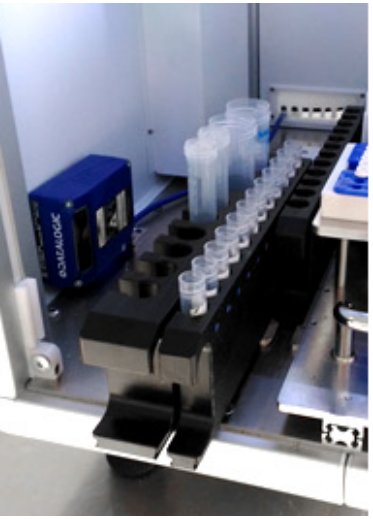


- ✓ Nucleic Acids DNA/RNA extraction
- ✓ Purification of amplified PCR
- ✓ Set-up PCR/qPCR

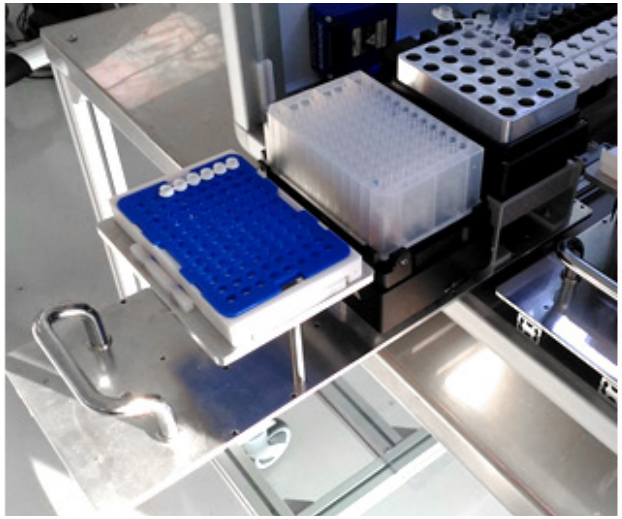
MAIN FEATURES & BENEFITS

- 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 with wireless remote control
- 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

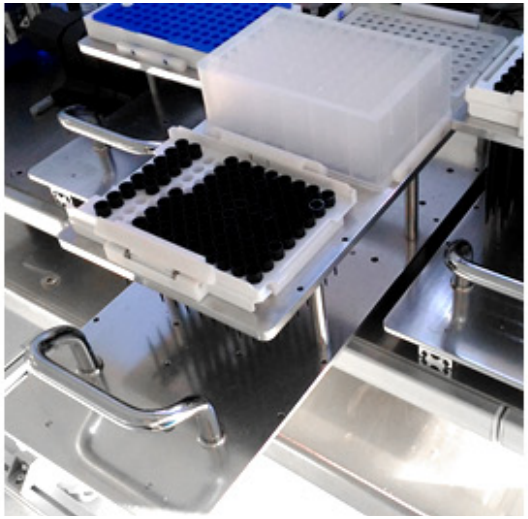
EXTRAlab



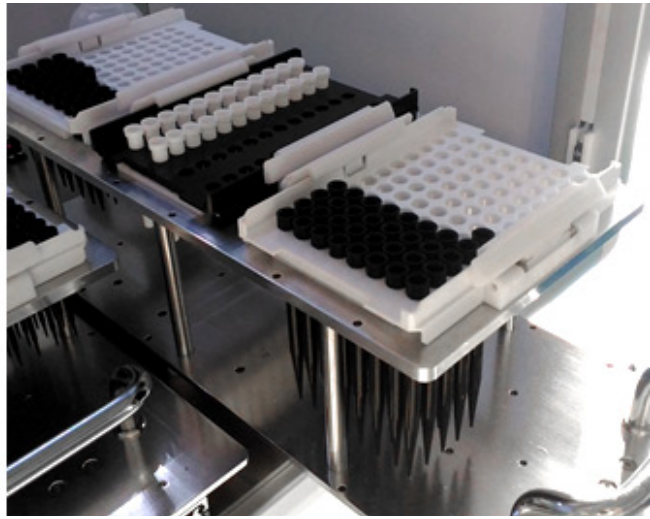
Ready to use reagents and up to 48 samples charging, integrated barcode reading for sample traceability.



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.

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TECHNICAL SPECIFICATIONS

Multifunction robotic arm

Liquid handling tool

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

Dispensing system

Aspiration with disposable conductive tips (with aerosol barrier)

Pipette system with liquid level sensing

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 rollaway drawer

Additional device on request

Thermal cycler (as a stand alone instrument)

Consumables

- 1 plate deep well for lysis
- 1 plate deep well for washing
- Falcon, primary tubes
- Conductive tips with filter (0,5ml, 1ml, 2ml)
- 48 magnetic cover-rod
- Tubes (0,5ml, 1ml, 2ml, 5ml,10ml)

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

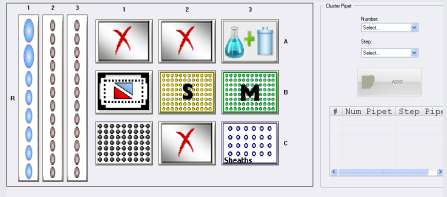
Packed:
920(W) x 872(D) x 888(H) mm / Weight: 125 kg

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.

MOLgen line kits are CE marked.

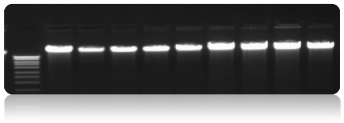
- NUCLEIC ACIDS UNIVERSAL EXTRACTION
- SAMPLE VALIDATION
- HUMAN IMMUNODEFICIENCY VIRUS (HIV)
- BLOOD-TRANSMISSIVE INFECTIONS
- HEPATITIS
- TUBERCULOSIS
- TICK-BORNE INFECTIONS
- GASTROINTESTINAL INFECTIONS
- HUMAN HERPES VIRUSES
- TORCH INFECTIONS
- SEXUALLY TRANSMITTED INFECTIONS (STI)
- MULTIPLEX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

ADALTIS

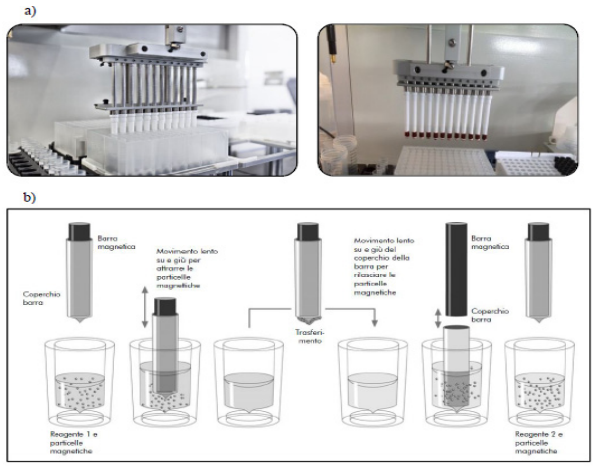
MOLECULAR DIAGNOSTICS

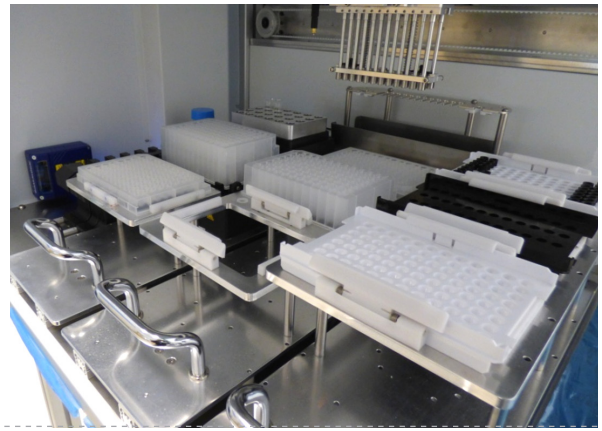
EXTRAlab Results

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 set-up

For more information

WWW.ADALTIS.NET

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

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

MDx Sales and Marketing Office
e-mail: mdx@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

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