



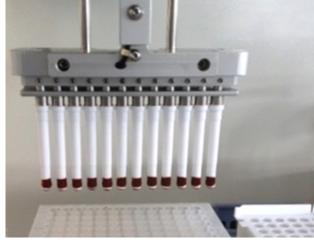
ZNGS prep

Advanced Automation in Molecular Biology









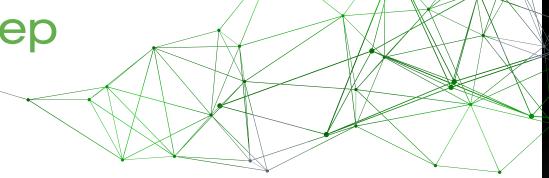








SAMPLE PROCESSING, NUCLEIC ACID EXTRACTION AND DOWNSTREAM ANALYSIS IN ONE STEP



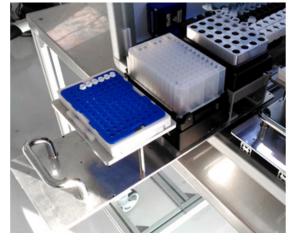
MAIN FEATURES & BENEFITS

- 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 maintenance and disinfection (UV lamp)
- Precision and repeatability of dispensing
- No cross contamination

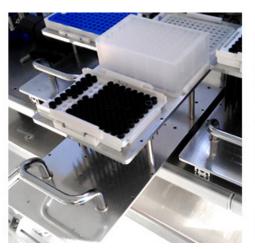
- User-friendly software
- Wide range of customisable protocols
- Quick programming of every applicable protocol
- Easy protocol selection from libraries
- Remote monitoring of activities
- Customised configuration
- Decrease of human errors and infectious risk
- CE-IVD process



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.

EXTRAlab ZNGS prep

Simple and comprehensive NGS workflow designed to process the sample through sequencing with minimal time and effort.

Automated Preparation protocols reducing the time and possibility of user error compared to a more "traditional" library preparation protocol.

LIBRARY PREPARATION PROTOCOL



- MasterMix
- Up to 16 Patient Samples



- Oligo Mix Primers, Indexes 1-96 (PCR Plate)
- CSV file

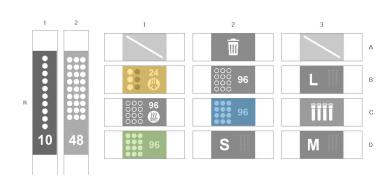


qPCR plate or PCR tubes



The CSV file contains the coordinates of the index plate

The generated CSV file contains the coordinates of the index plate taken from each sample



SAMPLE NORMALISATION AND LIBRARY POOLING

BEAD PURIFICATION PROTOCOL



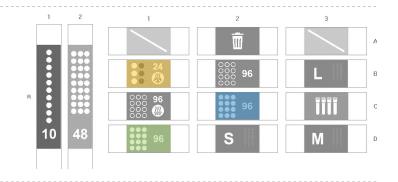
- Up to a maximum of 4 pre-normalized libraries
- Beads, Wash Buffer and Elution Buffer
- Eluates



 A single 2 ml deep-well plate on which the magnetic head allows the sample to be processed to elution



 Number of libraries to be purified Initial volume of each library



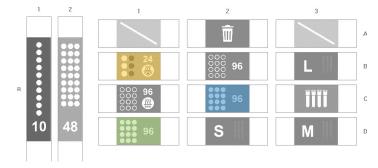
QUANTIFICATION OF POOLED LIBRARY



■ Up to a maximum of purified 4 libraries. Library dilution qPCR MasterMix, Library Specific Primers, Dnase/Rnase free H2O. Standards



Dilution Buffer

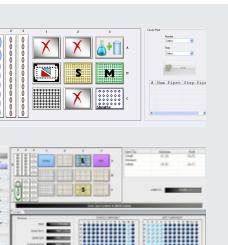


qPCR plate or PCR tubes



Number of libraries to be quantified







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



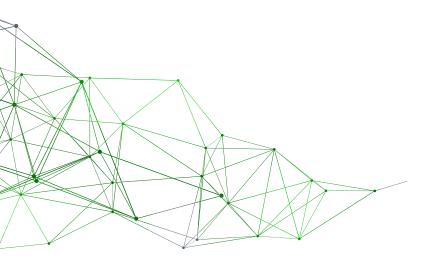
SOFTWARE

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





Standardised and easy approach to PCR Diagnostics



MOLgen

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

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 BIOCENOSIS AND MICROFLORA
- CANDIDIASIS
- GENETICS



Kidney (15mg)

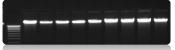
FFPE Brain (3 sect. da 5µm)

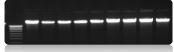
~40 µg

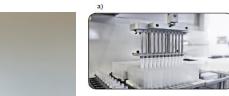
~1 µg

EXTRAlab Results

High yield, purity and integrity of the nucleic acid extract



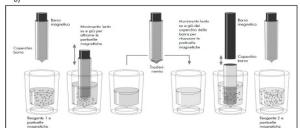






1.9

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For more information

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