PCR

Automated sample preparation:

fast and efficient solution
for real-time PCR

Sample preparation is the major stage of real-time PCR due to its crucial importance for the quality of results. Nucleic acids (NA) extraction and purification are laborious operations, and many IVD labs seek to automate them.

Magnetite is an automated NA extractor, which was designed specially for labs with throughput of about 1600 samples per month. Together with the along with a suitable set of reagents it allows to achieve the highest sample purification degree and automate all the procedures making the real-time PCR

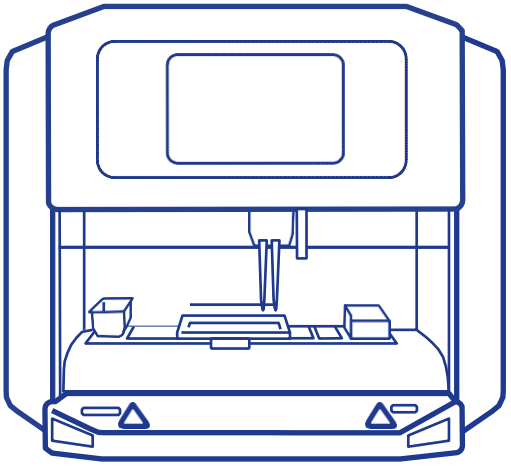
Magnetite main features

High-quality results:

excellent samples' purity due to the magnetic beads technology

Usability:

easy to install, operate, maintain



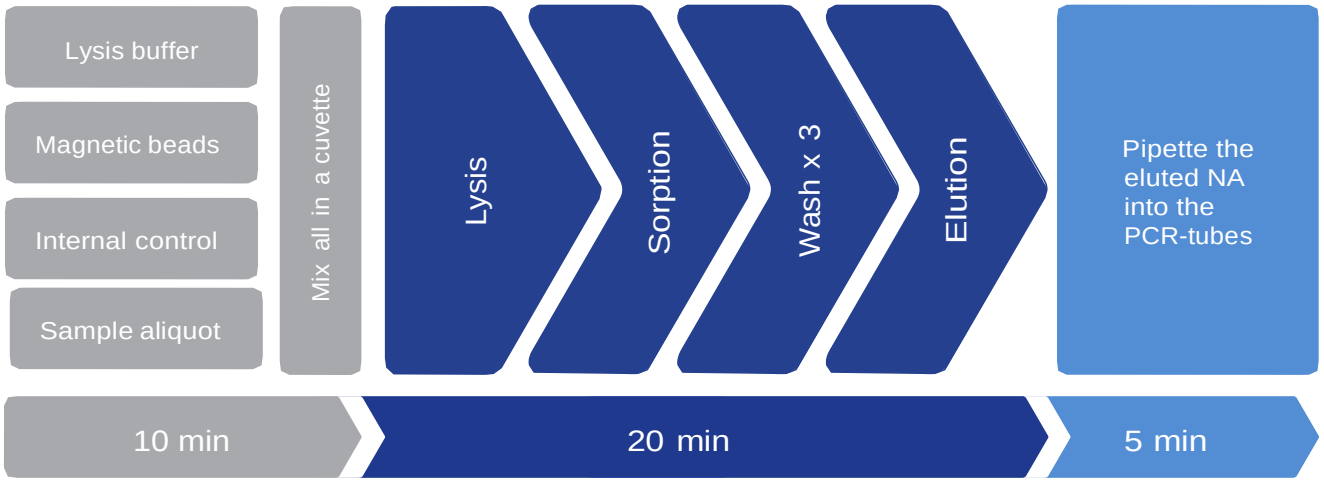
High performance:

16 samples (from 15 min, depending on the set of extraction reagents)

Universality:

wide range of samples to use for NA extraction

Automated sample preparation:
Stages of extraction on Magnetite



Sample input volume	0.1 ml
Output elution volume	0.2 ml
Processing duration	From 15 minutes, depending on the set of extraction reagents
Capacity	from 1 up to 16 samples in parallel (2*8) per run (incl PC, NC)
Consumables	disposable 1 ml tips, cartridges and cuvettes for reagents

All you need to get the PCR-assay's results are just 3 easy steps

Input

Samples

Epithelial swabs Urine
and feces Blood
serum/plasma
Cerebrospinal fluid
Leukocyte blood fraction
Biopsy material
Tick suspensions
Water samples

Reagents

Consumables

Process

NA extraction

Load all the require on Magnetite's board
Open the program
Select the protocol
Push the START button

NA pippeting

Automated pipetting of the eluted NA into the PCR tubes

Output

Eluate is ready for PCR/RT-PCR run

Magnetite technical data

Reagent dosing volume	20 - 1000 mkl
Mechanism of dosing	16 syringe pumps
Number of deep-well strips	12 strips of 8 wells
Controlling	Touch screen
External PC Requirements	USB 1.1, Windows 10 or later
UV radiation	2 × 6 W UV lamp (TUV G6T5)
UV lamp life	9000 h
Dimensions of the device	(W x H x D) 660 x 610 x 540 mm
Weight	36 kg
Power consumption	230 V, 50 Hz
Maximum operating power	700 W

The CE IVDR (In Vitro Diagnostic Medical Device Regulation) marking on the device confirms that the equipment complies with the requirements ofthe following directives and standards:

- European In-Vitro Diagnostic Devices Directive 98/79/EC
- EMC Directive 2014/30/EU
- LVD Directive 2014/35/EU
- RoHS2 2011/65/EU
- WEEE 2012/19/EU
- LVS EN 61326-1:2013
- LVS EN 61010-1:2011

EU Declaration of Conformity

Unit type	Automated Nucleic Acid Extractor
Models	**Magnetite**
Device classification	Device other than those covered by Annex II, Article 9, Directive 98/79/EC Class A, according to Regulation (EU) 2017/746, Annex VIII, Article 2.5
Serial number	14 digits styled XXXXXXYYMMZZZZ, where XXXXXX is model code, YY and MM – year and month of production, ZZZZ – unit number.
Manufacturer	SIA Laboveritas Latvia, LV-1067, Riga, Ratsupites str. 6B

Manufacturer is certified under ISO 13485:2016 for development, production, sales and service of *in vitro* medical equipment with certificate number LV006704

The objects of the declaration described above is in conformity with the following relevant Union harmonization legislations:

Regulation (EU) 2017/746 of the European Parliament and of the council of 5 April 2017 on *in vitro* diagnostic medical devices and repealing Directive 98/79/EC and Commission Decision 2010/227/EU
Low Voltage Directive (2014/35/EC) for Electrical safety *LVS EN 61010-1:2011 + A1:2019 + AC:2019* Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements.
EMC Directive (2014/30/EC) for Electromagnetic compatibility *LVS EN 61326-1:2013* Electrical equipment for measurement, control and laboratory use. EMC requirements. General requirements.
RoHS3 Directive (2015/863/EU) on the restriction of the use of certain hazardous substances in electrical and electronic equipment
WEEE Directive (2012/19/EU) on waste electrical and electronical equipment

I declare that the Declaration of Conformity is issued under sole responsibility of the manufacturer and belongs to the above-mentioned objects of the declaration.

Sergejs Djachenko
R&D department director

Signature

12 05 2022
Date

Laboveritas

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