

SieNA

Open System

High Efficiency

Modular Design
24 to 96 samples



Precise liquid handling

Intuitive user interface

Barcode traceability

Automated Nucleic Acid Extraction Simple and Affordable

SMART. COMPACT. FLEXIBLE.

SieNA is a modular state-of-the-art automated system, combining sophisticated and flexible magnetic processor units and liquid handling with robotic manipulation.

SieNA completely automates nucleic acid extraction using a single set of reagents and sample volumes in the range of 100 μ l to 2 ml as well as different elution volumes in the same run. This multi-extraction system extracts DNA, RNA and virus particles from a broad variety of sample types.

Superior efficiency in yields and purity are obtained with the 'gold standard' *Boom* magnetic silica and *MixSep* magnetic mixing technologies.

As the workload increases, SieNA can be expanded to include additional magnetic processors and pipettes to accommodate up to 96 samples.

Operation is software controlled and the simple "drag and drop" GUI simplifies automation.

Disposable pipette tips are used to ensure zero carryover. Various formats and volumes of disposable tips can be used.

The barcode reader ensures sample traceability and photometers and/or thermocycler can be integrated on the deck.



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Automated Sample Prep

HIGH PURIFICATION EFFICIENCY

SieNA provides unsurpassed purity and yield of nucleic acid extraction, the first critical step for sample preparation.

The patented "MixSep" process offers a breakthrough extraction efficiency over the current state-of-the-art. Magnetic mixing suspends and mixes magnetic particles providing a high rate of contact (collision frequency) between the affinity surface of the magnetic particles to enhance the affinity capture of nucleic acids.

Combined with silica magnetic particles (*Boom*) significant improvements in the capture, purity and yield of nucleic acid are obtained.

Purified nucleic acid is suitable for amplification in the field of molecular diagnostics.

OPEN SYSTEM

All tubes and pipette tips can be purchased economically from a variety of vendors.

Compatible with most sample types.

Purchase any magnetic particle based nucleic acid extraction kit from your preferred supplier or from Sigris Research.

Sigris nucleic extraction kit is based on magnetic silica particles and has a single extraction protocol.

AUTOMATED PIPETTES

All pipettes are individually driven by patented ceramic pumps requiring no maintenance or part change for the lifetime of the instrument.

All pipettes are capable of metring liquids from 5 µl to 2 ml with a precision of 1% CV with liquid level detector and independent XY motion.

Increase from 2 pipettes to 4 pipettes.

OPERATIONAL SPECIFICATIONS

- Simple Setup Protocol
- Run Size: 1 to 96 Samples
- Sample Volume: 100 µl to 2000 µl
- Internal Control: 100 µl
- Eluate Volume 25 µl to 100 µl
- Barcode Reader Traceability
- Turnaround Time:
60 minute for 48 Samples