



The first-of-its-kind solution

*Providing unprecedented versatility
in purification and separation tasks*



MagRo™ 96-M

High throughput nucleic acid and protein purifications with MagRo™ 96-M

Compact | Versatile | Easy-to-use | 96 samples simultaneously

MagRo™ 96-M represents the next generation of magnetic particle workstations. Designed around Bio-Nobileis proprietary PickPen® magnetic bioseparation technology, it is both compact and fast. The MagRo 96-M workstation is ideal as a stand alone system for nucleic acid, protein and cell isolations and purifications, and many other key applications in proteomics, gene expression studies, multiplexing, etc. At the same time, the workstation has an open design to allow easy integration into existing robotic configurations. As such it represents a unbeatable solution for high throughput laboratories because it eliminates the bottleneck often caused by the sample preparation phase. The workstation is fully compatible with both standard and deep well microtitration plates.

Unique combination of sample preparation with downstream applications

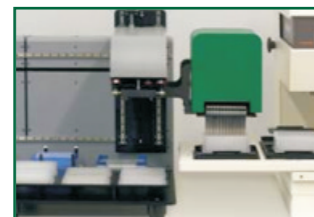
MagRo 96-M can work beyond its own deck area. This enables labs to set up combois where sample preparation is seamlessly combined with downstream applications, e.g. collection or release of magnetic particles on liquid handling / plate washer instruments, thermocyclers or plate readers.

Compact size

MagRo 96-M gives the best sample number to bench space ratio available. There are 8 plate positions, and since the head can extend outside the MagRo 96-M deck area, you can also utilize additional off-deck plate positions. An optional cover for the workstation is available.



The MagRo™ 96-M head comprises 96 proprietary high efficiency magnets



Extended reach enables simple "handshake" integration.



The Windows®-based protocol editor is easy to use.

Designed for integration

Open design enables easy integration with third party liquid handlers, robotic arms and other laboratory equipment. The workstation supports the use of shakers, heaters, cooling blocks or washers, directly connected to the system. You can choose plate decks to suit alternative plate orientations, and in every position there is easy access for a robot arm. For further flexibility in integration, the MagRo 96-M unit is symmetrical. The instrument can be installed to operate from left to right, or right to left.

New frontiers in magnetic particle processing

MagRo 96-M offers more choices for the processing of magnetic particles than ever before. The purification can start in a deep well plate and the purified product can be eluted in a few tens of microlitres. Magnetic particles can be recycled to the sample plate - a repeat collection minimizes magnetic particle costs. Very large samples or viscous difficult samples can be divided over multiple plates, then re-combined in the same elution plate, thus sample size can be extended beyond the capacity of a deep well plate.

One stop solution provider

As a leading provider of magnetic particle technology BN Products & Services supplies a wide range of reagents ranging from off the shelf purification kits to customized magnetic particle reagents. Ready protocols for the QuickPick™ kits are supplied for MagRo 96-M. The workstation's easy-to-use Windows®-based protocol editor also enables users to set up protocols according to their own application needs.

The MagRo™ 96-M workstation is ideally suited for applications such as:

Gene expression studies:
Transfection, RNAi, siRNA studies
Library screening ADMET

Proteomics applications:
Pull down assays, fractionations, MALDI & ESI-MS front end solutions

Cell isolations:
High throughput cell sorting, positive or negative fraction of 96 cell samples simultaneously

High throughput sample preparations:
Nucleic acid and protein purifications from cells and tissues

High throughput magnetic solid phase applications:
Immuno and receptor assays
Affinity screening

Multiplexing:
Novel assay concepts for high density array and suspension bead array automation





SPECIFICATIONS

| | |
|---------|--------|
| Length: | 890 mm |
| Width: | 478 mm |
| Height: | 750 mm |
| Weight: | 25 kg |

WORKSTATION WORKING AREA

The plate deck is designed for plates and accessories with microtitration plate footprint. The deck can be configured for landscape or portrait formats.

The capacity of the deck is 8 microtitration plates plus two positions for PickPen tip boxes and two positions for on-deck accessories, e.g. plate shaker.

The extended reach of the 96 magnet head allows the extension of the working area by up to three additional plate positions, or access to plates on ancillary equipment, such as liquid handling workstations or thermocyclers.

MAGNETIC PARTICLE PROCESSING

MagRo 96-M is equipped with a 96 magnet head, which can be installed in landscape or portrait position, to support the plate orientation used. The tool contains strong diametrically magnetized magnets, which provide a large collection surface*. Magnetic field shielding tubes enable efficient release of magnetic particles*.

Proprietary elastic PickPen tips** that fit closely around the magnet minimize dead volume for efficient collection while protecting the magnet

INTEGRATION

MagRo 96-M is designed to support integration into laboratory automation. The open design and extended reach provide a wide range of alternatives. The software supports event-based control.

*Patent pending

**Patent approved

ACCESSORIES

MagRo 96-M allows the use of accessories such as:

- Plate shakers and plate cooling devices. Accessories can be controlled through RS232 interfaces.
- MagRo 96-M Cover, the cover protects the workstation when extra sensitive assays are run.
- Plate tray extension, landscape (increases plate capacity by 3 plates).
- Plate tray extension, portrait (increases plate capacity by 3 plates).
- Plate gripper: For transfer of microtitration plates on the working area.

SOFTWARE PLATFORM

Windows XP compatible MagRo 96-M graphical user interface program.

COMPUTER COMMUNICATION

Windows XP compatible PC or laptop.

Communication with MagRo 96-M through an RS 232 port, or using a USB – RS232 converter.

RELATED PRODUCTS AVAILABLE FROM BN PRODUCTS & SERVICES

PickPen tips (Dnase/Rnase-free, 96 tips prepacked in box or in bulk)
Standard 96-well plates
Deep well plates

ALSO AVAILABLE

QuickPick™ kits for nucleic acid purification
QuickPick kits for protein purification
Various magnetic particle reagents

Distributed by:



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