



NucliSENS[™] — easyMAG

AUTOMATED NUCLEIC ACID EXTRACTION • MAGNETIC SILICA



NucliSENS[®] easyMAG[®]
Make it easy: All applications in one run!

USER TESTIMONIALS

"In our side-by-side comparisons with other automated nucleic acid extraction platforms, the NucliSENS® easyMAG® demonstrated better extraction efficiency with higher yields of viral DNA and greater precision as evidenced by lower coefficient of variation values. In addition, the instrument offered a faster turn-around time of 24 samples in approximately 45 minutes with use of a streamlined off-board lysis workflow."



Steven B. Kleiboeker,
PhD, Chief Scientific Officer, Viracor-IBT Laboratories,
Lee's Summit, Missouri - USA

"NucliSENS® easyMAG® is a platform offering incredible flexibility for virology routine: generic nucleic acid isolation, multiple specimen types, variable input and elution volumes, various downstream applications. A flexible system allowing the laboratory to react promptly to unexpected events, e.g., the 2009 pandemic influenza A (H1N1)."



Dr David Boutolleau,
Groupe Hospitalier Pitié-Salpêtrière et Université Pierre et
Marie Curie Paris 6, Paris - France

"We use the NucliSENS® easyMAG® system for DNA and RNA extraction in many molecular biology assays, for commercially developed kits as well as for in-house developed reactions. The advantage of this system is that it is useful for extracting RNA and DNA from different clinical specimens, in one run only."



João Renato Rebello Pinho,
Medical Coordinator, Albert Einstein Medicina Diagnóstica,
São Paulo - Brazil



FLEXIBILITY / VERSATILITY

Optimize your **WORKFLOW & PRODUCTIVITY** with several applications in the same run : 40 min

- Generic protocol approach for DNA & RNA
- One set of reagents whatever the application
- High flexibility in term of sample input

HIGH EXTRACTION QUALITY

- Magnetic extraction based on the gold standard BOOM technology (silica particles)
- High concentration factor: up to 40
- High quality RNA & DNA extraction: the easyMAG has been validated with a wide range of clinical commercial kits for real-time amplification and detection

EASY-TO-USE

- Very accessible to all users:
 - Only one set of reagents and 2 consumables to be loaded for all applications
 - Intuitive touchscreen simplifying the sample, reagent & disposable management
- Limited daily maintenance: 5' not more!





EFFICIENCY, having the possibility to perform
15 minutes for 24 extractions
VERSATILITY NA extraction
ADAPTABILITY application
SCALABILITY input & output volumes

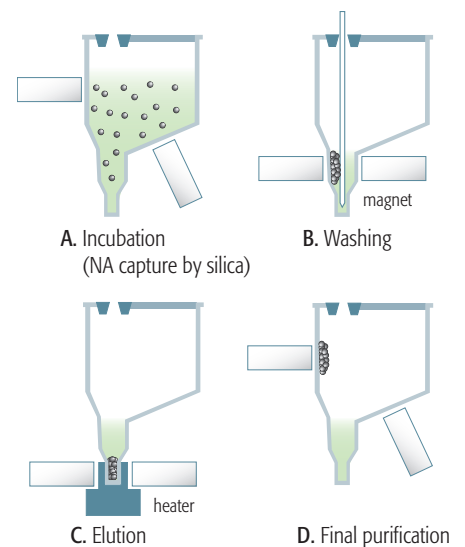
CONNECTIVITY / TRACEABILITY

- Bar code reader insuring the samples traceability
- Connectivity to the LIS : automated data transfer with NucliSENtral



Extraction Principle

- During incubation of the lysed samples, all the target nucleic acid is captured by magnetic silica particles.
- The NucliSENS easyMAG magnetic device attracts all the magnetic silica, enabling the system to purify the nucleic acids through several washing steps.
- The heating step releases the nucleic acids from the silica.
- At the final step, the magnetic silica particles are separated from the eluate by the magnetic device.





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System input requirements

- ▶ **Run size:**
1-24 samples per run
- ▶ **Magnetic silica particles**
- ▶ **Protocoles available:**
 - Plasma
 - Serum
 - Whole blood
 - CSF
 - Sputum
 - Stool
 - Urine
 - BAL
 - Swabs
 - Dry Blood Spot
 - etc.
- ▶ **Internal control:**
maximum 100 microliters
- ▶ **Input volume:**
from 10 to 1000 microliters
- ▶ **Barcode reader traceability**
- ▶ **Same reagents for all protocols**

System Outputs

- ▶ **Output volume:**
from 25 to 110 microliters

Features

- ▶ **Hands-on time:**
<15 minutes for 24 samples

Throughput flexibility

- ▶ **Lysis on board workflow:**
up to 168 extractions per shift
- ▶ **Lysis in tube workflow:**
up to 240 extractions per shift

Turnaround time

- ▶ **Lysis on board workflow:**
60 minutes for 24 samples
- ▶ **Lysis in tubes workflow:**
40 minutes for 24 extractions

Dimensions

- ▶ **Width:** 1000 mm
- ▶ **Depth:** 650 mm
- ▶ **Height:** 530 mm

Weight

- ▶ 125 kg



NucliSENS [®] easyMAG [®] Extraction Buffer 1	ref. 280130	4 x 1 l
NucliSENS [®] easyMAG [®] Extraction Buffer 2	ref. 280131	4 x 1 l
NucliSENS [®] easyMAG [®] Extraction Buffer 3	ref. 280132	4 x 1 l
NucliSENS [®] easyMAG [®] Magnetic Silica	ref. 280133	384 extractions
NucliSENS [®] easyMAG [®] Lysis Buffer (1000 ml)	ref. 280134	4 x 1 l
NucliSENS [®] easyMAG [®] Disposables	ref. 280135	384 positions

NucliSENS[®] easyMAG[®] Instrument starter pack ref. 280140

 Watch the NucliSENS[®] easyMAG[®] video demo and access other online resources at: www.biomerieux.com/easymag

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