

Automated Nucleic Acid Isolation

chemagen offers reliable sample preparation using the chemagic Kits based on proprietary M-PVA particles with one of the **chemagic separation systems** fitting to your demands.



chemagic MSM I

large volume and high throughput solution

chemagic Prepito

small benchtop solution

Appropriate kits are available for

- Blood
- Serum/Plasma
- Buffy coat
- Amniotic fluid
- Buccal swabs
- Cells
- Tissue
- Bacteria
- Sequencing reactions or PCR clean up

Benefits of the chemagic Automation

- Pure dissolved DNA/RNA (ready to use)
- Scaleable sample volumes from 10 μ l to 10 ml
- Robust technique
- Minimal hands on time
- Cost efficient sample preparation
- High throughput
- Reliable & reproducible results
- Enhanced success rates for your downstream applications

it's chemagic!

chemagic Magnetic Separation Module I



Dimension: base machine 600 x 640 x 950 (W/D/H); Carrier axis 1940 x 170 x 200 (W/D/H)

approved highly successful absolutely reliable

Automated High Throughput Nucleic Acid Isolation Based on Proprietary M-PVA Magnetic Bead Technology

The chemagic Magnetic Separation Module I (chemagic MSM I) is the complete solution for preparation of nucleic acids from blood, serum/plasma, swabs, saliva, faeces, etc. It can be used with exchangeable chemagic Rod Heads, which allow the processing in 96 or 48 well plates (using the chemagic 96 Rod Head) or in 24 well plates (using the chemagic 24 Rod Head) or in larger single tubes (working volumes up to 50 ml, using the chemagic 12 Rod Head). The resulting flexibility makes it possible to meet individual requirements for downstream applications in e.g. HLA Typing, Virus Detection, Pathogen Diagnostics and Human Genetics.

Features at a glance

Enhanced success rates for your downstream applications

One instrument for all sample volumes (10 μ l – 10 ml)

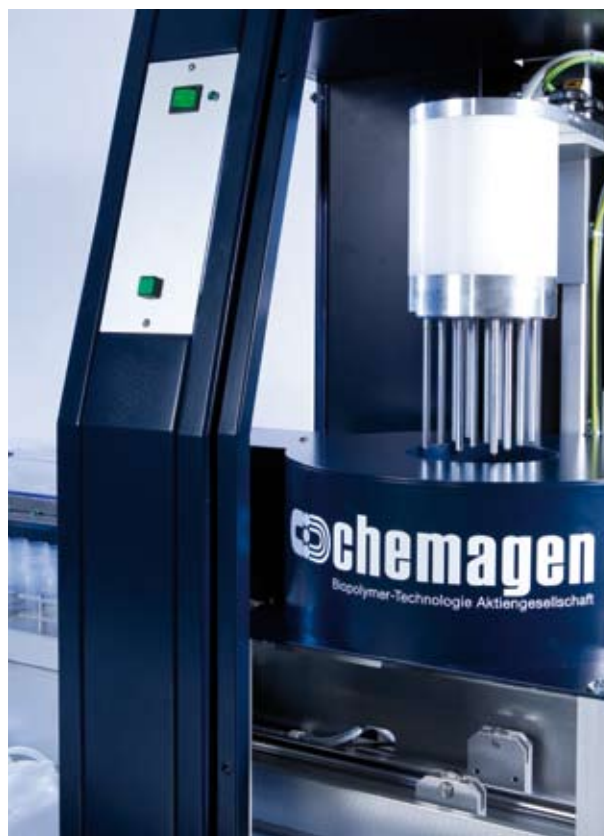
High throughput




Barcode reading included

chemagic Quality Assurance (QA) software

chemagic Dispenser available

can be combined with standard liquid handling units



chemagic Rod Head	No. of Samples	Sample Volumes	Tubes/Plates	Processing Time	Throughput
	1 - 12	1 ml - 10 ml	15 ml or 50 ml tubes	e.g. chemagic DNA Blood 5 ml Kit special ca. 55 min	e.g. 150 samples/day
	1 - 24	200 μ l - 2 ml	12 single tubes or 24 well plates	e.g. chemagic DNA Blood 2 ml Kit special ca. 55 min	e.g. 300 samples/day
	1 - 96	10 μ l - 400 μ l	96 well plates or 96 single tubes	e.g. chemagic DNA Blood 10 μ l Kit special ca. 15 min	e.g. 4.000 samples/day

chemagic QA Software

The chemagic QA Software is the ideal solution for labs who require high quality assurance while they use the chemagic Magnetic Separation Module I for nucleic acid isolation. The connection to a standard LIMS system is unproblematic because the QA software generate LIMS compatible log files.



Features at a glance

- Barcode reading/Sample tracking
- LIMS compatible log files
- Up to date user management
- Easy navigation and set up
- Pre installed protocols
- Tracking the progress of a running protocol

chemagic Dispenser

The use of the **chemagic MSM I** simplifies and fastens time consuming sample preparation steps like nucleic acid isolation significantly. By using the **chemagic Dispenser** it is even faster and more comfortable. The **chemagic Dispenser** was developed to notably reduce hands-on time preparing a **chemagic MSM I** run. But independent of the amount of needed buffer this particular add-on prefills fast and accurately the tubes/plates during a **chemagic MSM I** run. Variants of the chemagic Dispenser are available fitting to the corresponding chemagic Rod Head formats (12, 24 and 96).



Features at a glance

- Reduced hands on time
- Simultaneous filling of up to 8 different buffers with different buffer volumes
- Waste of buffer is minimized
- Based on membrane pump technology
- Fully integrated in the chemagic MSM I software
- Easy upgrade of a stand-alone chemagic MSM I (plug and play)

The precise technology of the chemagic Dispenser is also integrated in the chemagic Prepito.

chemagic Prepito



Dimension: base machine 62 x 52 x 55 (W/D/H)

fast highly flexible fully automated

The **chemagic Prepito** is based on chemagen's proven technology for magnetic particle separation and represents the top quality sample preparation system now available as a small size instrumentation. It utilizes many years experience in automated nucleic acid isolation gained with the high throughput instrument **chemagic MSM I**. In combination with the chemagic Kits it delivers high yield and purity DNA/RNA and ensures the success of your downstream application.

This innovative instrument realizes cost effectiveness through automated dispensing of buffers into standard plastic devices instead of using expensive prefilled cartridges. It includes barcode reading to provide comfort and to support highest quality assurance demands. Hands-on time is minimized. Processing time is as short as 50 min. for 1 or up to 12 samples per batch.

Features at a glance

1 - 12 samples per run

Integrated buffer dispensing

Revolutionary resuspension technology

Standard plastic devices (included in the chemagic Kits)

chemagic Kits and preinstalled protocols
for a huge variety of sample materials

Quantitative yield, highest purity

Sample sizes up to 600 μ l

Barcode reading

LIMS compatible log files



No. of Samples	Sample Volumes	Plates/ Consumeables	Typical Yield	Processing Time	Barcode reading	Dispensing
1 - 12	100 μ l - 600 μ l	48 well plates or 96 well plates	5 - 12 μ g DNA/ 250 μ l blood	ca. 60 min	included	integrated



Any further question?

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