

Chemagic™ 360 Instrument

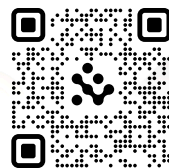
English Version

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brindaremos información
personalizada, cotizaciones y todo
lo que necesitas para tomar la mejor
decisión para tu laboratorio.

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Flexible, automated, high-throughput DNA and RNA isolation

With dimensions of only 80 x 80 cm and its unique sample volume flexibility, the chemagic™ 360 instrument represents the ideal solution for nucleic acid isolation in human genetics, biobanking, HLA typing, viral and bacterial detection.

Experience the revolutionary compact benchtop design of our well established chemagic 360 instrument. Based on the patented chemagic Magnetic Bead Technology, the system offers a flexible solution for different sample processing and throughput needs. Configurable with three kinds of chemagic Rod Heads the system can process sample volumes from 10 µl - 10 ml (see table on page 3). To support your automation needs, the system is equipped with the chemagic Software and the chemagic 360 Dispenser Unit. These allow LIMS-compatible bar code reading/sample tracking and automated buffer filling for all volume applications. Due to its modular set up, the chemagic 360 Instrument can be integrated with standard liquid handling units.



2024-0020 chemagic 360 instrument

2024-0010* chemagic 360-D instrument*

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Key features

- Sample volumes from 10 µl - 10 ml
- High throughput
- Huge kit portfolio
- No cross contamination
- Various sample materials in one run
- Integrates with liquid handling platforms



chemagic 12 Rod Head



chemagic 24 Rod Head



chemagic 96 Rod Head

Benefits

- Sample volumes from 10 µl - 10 ml
- High throughput
- Huge kit portfolio
- No cross contamination
- Various sample materials in one run
- Integrates with liquid handling platforms

Product Name	Product Number	No. of samples	Samples volumes	Tubes / Plates	Processing time
chemagic 360 12 Rod Head Set	CMG-371	1 - 12	0.5 ml - 18 ml	50 ml tubes	e.g. for 10 ml blood ~ 55 min
chemagic 360 24 Rod Head Set	CMG-376	1 - 24	200 µl - 10 ml	24 well plates XL	e.g. for 4 ml blood ~ 55 min
chemagic 360 96 Rod Head Set	CMG-370	1 - 96	10 µl - 1.5 ml	96 well plates	e.g. for 400 µl blood ~ 55 min or for 96 swabs ~ 31 min

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chemagic 360 configuration

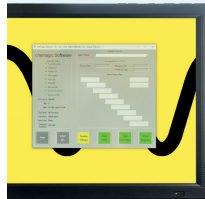
chemagic Software

The intuitive chemagic Software is the ideal solution for laboratories who require high quality assurance while they use the chemagic 360 instrument for nucleic acid isolation. For ease of operation and advanced QA needs the chemagic software generates log files, which can be easily integrated in LIMS systems.



Features at a glance:

- Bar code reading/sample tracking
- LIMS compatible log files
- Easy navigation and set up
- Pre-installed protocols
- Tracking the progress of a running protocol



While running a protocol, the protocol status shows within the main window of the chemagic software the running time, remaining time and the actual protocol step enabling the complete tracking of the process.

Magnetic bead based nucleic acid isolation

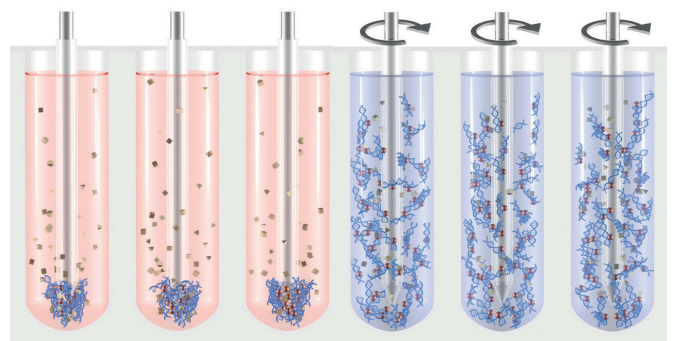
Magnetic Separation

The magnetic separation is based on the use of metal rods that are lowered into a process solution (A). To collect beads from the solution, the rods are magnetized. Pellets form at the tips of the rods, and the rods are withdrawn from the solution with the pelleted beads attached.

Resuspension into the next process solution, for example, wash or elution buffer, is achieved by switching off the magnetism while rotating the rods (B). This normally difficult step is thus performed quickly and thoroughly, resulting in isolation products with high yields and purities.

Unique property of the chemagic separation process

- The transfer of magnetic beads instead of liquids ensures no cross contamination of the samples during the isolation process.
- Smooth and efficient resuspension technology ensures the isolation of long DNA fragments up to 200 kb.



chemagic 360 configuration

chemagic 360 Dispenser Unit

The use of the chemagic 360 instrument simplifies and improves time consuming sample preparation steps in nucleic acid isolation significantly, by using the chemagic 360 Dispenser Unit. Independent of the amount of needed buffer, the additional unit prefills tubes/plates quickly and accurately. Variants of the chemagic 360 Dispenser Unit are available to suit the corresponding chemagic Rod Head formats (12 and 24/96).



Features at a glance:

- Reduces hands-on time
- Cost-efficient through optimal buffer dispensing
- Fast and reliable membrane pump technology
- Fully integrated in the chemagic 360 software

chemagic 360 Portrait Dispenser Kit

The chemagic 360 Portrait Dispenser Kit enables the filling of buffers in portrait direction instead of land-scape using the general chemagic 360 Dispenser Unit. The advantage of the portrait filling is the simplified integration with liquid handlers which generally pipette in portrait format (8, 16, 24, etc.).

Product number: CMG-13005658

Workflows with chemagic kits

The chemagic kit portfolio comprises a large amount of kits for the isolation of genomic DNA, cfDNA, total RNA, viral and bacterial nucleic acids from a variety of sample materials. Here, it is presented a small selection of available kits.

Sample type agnostic - chemagic nucleic acid isolation solutions

