

chemagic Kits Overview

The **chemagic Kit** portfolio comprises a large amount of kits for the isolation of gDNA and total RNA.

Ideal Support for your Human Genetics Research and Biobanking

chemagic Kits	Instrument	Sample Volumes	Samples/Run
chemagic DNA Blood Kit special	chemagic 360	3 ml - 10 ml 1 ml - 4 ml 50 µl - 400 µl	12 24 96
chemagic DNA Saliva Kit special	chemagic 360	4 ml	24
chemagic FFPE DNA Kit special	chemagic 360	10 µm section	96
chemagic DNA Tissue Kit special	chemagic 360	10 mg	96
chemagic DNA Buccal Swab Kit special	chemagic 360	1 swab	96

chemagic Kits for Prenatal Genetics and Cancer Research

chemagic Kits	Instrument	Sample Volumes	Samples/Run
chemagic Circulating NA Kit special	chemagic 360	1 ml, 4 ml 4 ml	12 24
chemagic Amniotic Fluid Kit special	chemagic 360	1 ml	12

chemagic Kits for the Isolation of total RNA

chemagic Kits	Instrument	Sample Volumes	Samples/Run
chemagic RNA Blood Kit special	chemagic 360	2.5 ml stabilized blood 2.5 ml stabilized blood	12 24
chemagic RNA Saliva Kit special	chemagic 360	1 ml Oragene saliva	12
chemagic RNA Tissue Kit special	chemagic 360	50 mg tissue	12

chemagic Kits for Pathogen Detection

chemagic Kits	Instrument	Sample Volumes	Samples/Run
chemagic Viral DNA/RNA Kit special	chemagic 360	1 ml - 9.6 ml 300 µl Serum/plasma, swabs, feces suspension or any blood free body fluids/materials	12 96
chemagic Viral DNA/gNA Kit special	chemagic 360	200 µl Body fluids, e.g. whole blood, serum/plasma, swabs, feces, urine, bacterial o/n culture	96

Other chemagic Kits and protocols are available on request!

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chemagic 360
Dimensions: 800 x 800 x 900 mm (L/W/H).
Available with three different rod heads.



chemagic 360

Compact High Volume Nucleic Acid Isolation

Based on PerkinElmer patented magnetic bead technology the chemagic 360 represents the ideal solution for nucleic acid isolation in a huge variety of research market segments including but not limited to Biobanking/Human Genetics, HLA Typing, Virus and Bacteria Detection.

Experience the revolutionary compact benchtop design of our new developed chemagic 360. Based on the well established chemagen 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 below). To support further automation needs, the system can be extended with chemagic QA Software and the chemagic Dispenser 360. 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 can be integrated with standard liquid handling units.

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

Benefits

- Revolutionary compact benchtop design
- Convenient and improved sample management
- User-friendly modular system
- Bar code reading for sample tracking
- LIMS compatible log files
- Patented technology and kits

chemagic Rod Head	No. of Samples	Samples Volumes	Tubes/Plates	Processing Time
12	1 - 12	1 ml - 10 ml	15 ml or 50 ml tubes	e.g. for 5 ml blood ~ 55 min
24	1 - 24	200 µl - 4 ml	24 single tubes, 24 well plates or 24 well plates XL	e.g. for 2 ml blood ~ 55 min
96	1 - 96	10 µl - 400 µl	96 single tubes or 96 well plates	e.g. for 10 µl blood ~ 15 min



CHEMAGIC 360 ACCESSORIES

chemagic QA Software

The **chemagic QA Software** is the ideal solution for laboratories who require high quality assurance while they use the chemagic 360 for nucleic acid isolation. The connection to a standard LIMS system is unproblematic because the QA Software generates LIMS compatible log files.

Feature at a glance

- Bar code 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



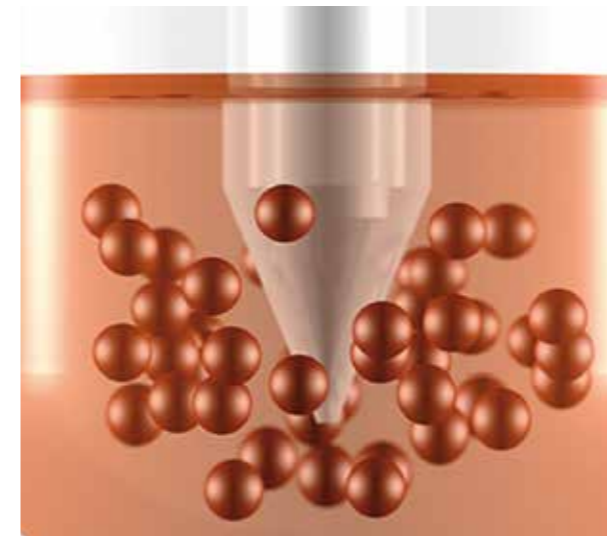
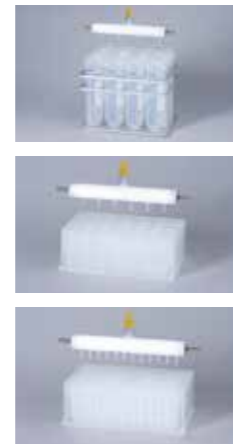
The status protocol shows within the main window of the chemagic QA Software: the running time, remaining time and the actual protocol step while running the protocol enabling the complete tracking of the process.

chemagic Dispenser 360

The use of the chemagic 360 simplifies and improves time consuming sample preparation steps like nucleic acid isolation significantly. By using the **chemagic Dispenser 360**, a particular chemagic 360 add-on, sample preparation is even faster and more comfortable. The chemagic Dispenser 360 notably reduces hands-on time when preparing a chemagic 360 run. Independent of the amount of needed buffer, the additional unit prefills tubes/plates quickly and accurately. Variants of the chemagic Dispenser 360 are available to suit the corresponding chemagic Rod Head formats (12, 24 and 96).

Feature at a glance

- Reduces hands-on time
- 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 360 software
- Easy upgrade of a stand-alone chemagic 360 (plug and play)



MAGNETIC BEAD BASED NUCLEIC ACID ISOLATION

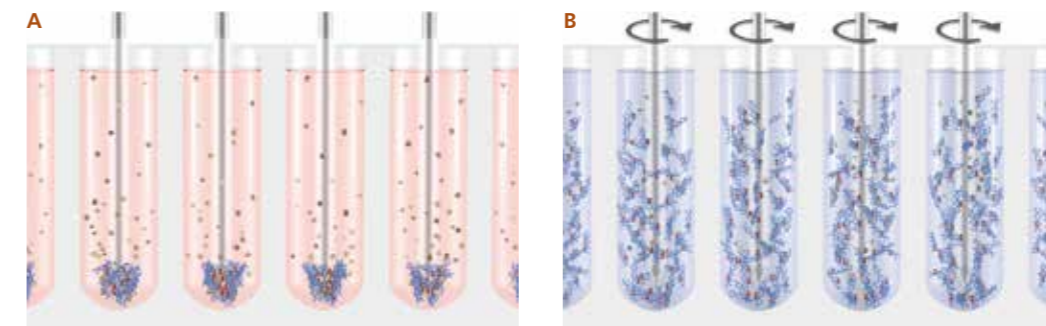
Magnetic Separation

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.



MAGNET ON ROTATION OFF

MAGNET OFF ROTATION ON

Fig.: Magnetic separation technology

Ordering Information

Product Number	Product Name
CMG-360	chemagic 360
CMG-534	chemagic 12 Rod Head
CMG-535	chemagic 24 Rod Head
CMG-536	chemagic 96 Rod Head

Product Number	Product Name
CMG-361	chemagic Dispenser 360 (12 Rod Head)
CMG-362	chemagic Dispenser 360 (24 Rod Head)
CMG-363	chemagic Dispenser 360 (96 Rod Head)
CMG-522	chemagic QA software