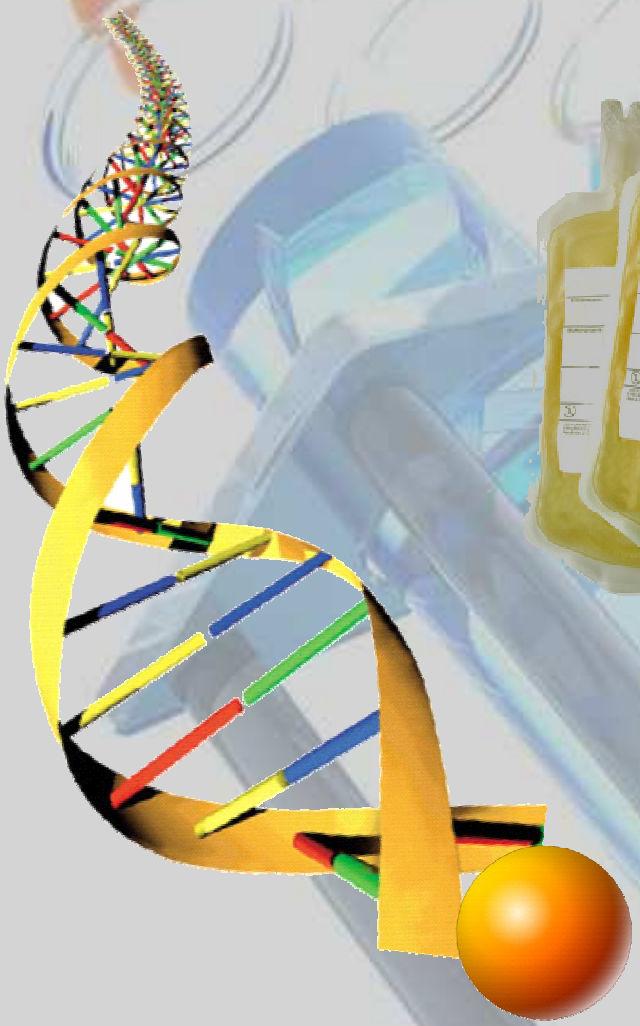
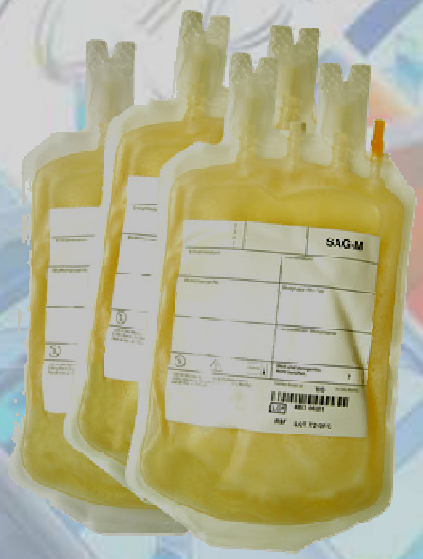
geneMAG-DNA / *Serum*

the magnetic DNA purification kit

For isolation of genomic DNA from human serum or plasma with magnetic beads





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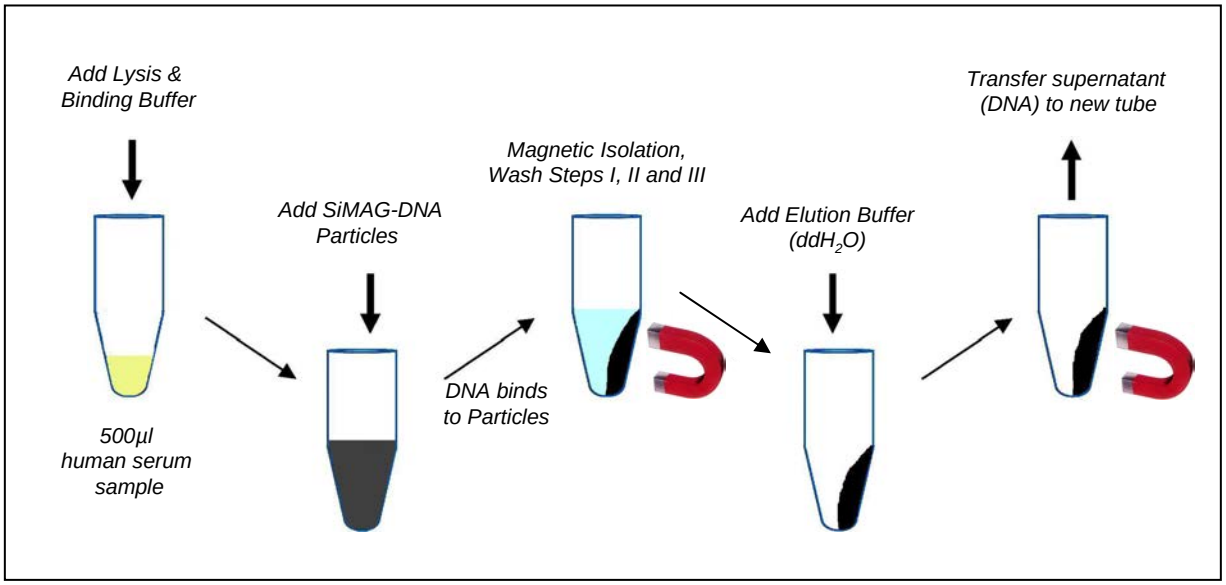
NEW TOOLS IN BIOSCIENCES

The **geneMAG-DNA / *Serum*** kit is a novel, simple and highly efficient tool for the isolation of genomic DNA with magnetic silica beads. The DNA can be isolated from human serum or plasma samples.

The binding of DNA is carried out under non-chaotropic conditions with the Binding & Wash Buffer . The wash steps with Wash Buffer-II/-III guarantee a clean DNA which is suitable for PCR reactions or other biochemical applications.

geneMAG-DNA / *Serum* is highly suitable for a variety of automatization platforms since it requires no centrifugation or vacuum filtration procedures.



Products

Kits	Contents	Number of isolations	Price Euro/US$
geneMAG-DNA / Serum 15 (Cat. No.: 3901-15)	• 33 ml Binding & Wash Buffer • 1.5 ml SiMAG-DNA Beads	15 preps per 500 µl serum	40 / 52
geneMAG-DNA / Serum 100 (Cat. No.: 3901-100)	• 220 ml Binding & Wash Buffer • 10 ml SiMAG-DNA Beads	100 preps per 500 µl serum	220 / 286
geneMAG-DNA / Serum 500 (Cat. No.: 3901-500)	• 1100 ml Binding & Wash Buffer • 50 ml SiMAG-DNA Beads	500 preps per 500 µl serum	900 /1170

Reagents and Equipment to be Supplied by the User

- **Wash Buffer II**: 70% Ethanol or 70% Isopropanol
- **Wash Buffer III and Elution Buffer:** ddH_2O
- **Vortex mixer** and **heating block** or water bath (65°C), **magnetic separator**

Storage

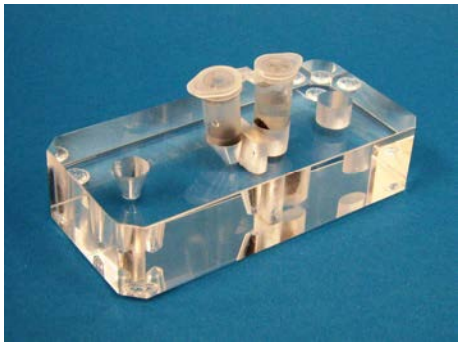
The kit compounds are stable at room temperature. If there are salt precipitates in the **Binding & Wash Buffer** dissolve these precipitates by warming in a water bath.

Safety Note

Binding & Wash Buffer contain chaotropic salts, which are irritant. Take appropriate laboratory safety measures and wear gloves when handling. **Avoid skin and eye contact**

Utensils for magnetic DNA purification

The **MagnetoPURE** separator is specially designed for magnetic separation of DNA/RNA in 1.5 ml and 2 ml tubes. The position of the high powerful magnet guaranties fast and easy separation of the magnetic particles.



MagnetoPURE

MagnetoPURE BIG SIZE

Separator	Cat. No.:	Price Euro/US$
MagnetoPURE	MP-10	65 / 85
MagnetoPURE BIG SIZE	MP-20	350 / 460

SPECIAL OFFER

As an introductory offer you will recieve a **geneMAG-DNA / *Serum* 15** kit for free in combination with the purchase of the **MagnetoPURE** separator.

SPECIAL OFFER:	Price Euro/US$
MagnetoPURE (separator) **geneMAG-DNA / Serum 15 kit**	**65 / 85**

This protocol describes the isolation of genomic-DNA from human serum (HS) or plasma samples in microcentrifuge tube.

1. Add 500 µl HS / plasma with DNA to a 2 ml microcentrifuge tube.

2. Add 1.2 ml **Binding & Wash Buffer** and vortex for 10 seconds.

Attention: The minimum ratio between the volume of sample material and Binding & Wash Buffer is 1:2. A larger volume of Binding & Wash Buffer will improve the binding.

3. Add 100 µl **SiMAG-DNA** silica beads to the sample, vortex and incubate for 2-5 minutes at room temperature.

Tip: *Resuspend the magnetic beads completely before use by vortexing.*

4. Place the tube on a magnetic separator for 30 seconds and collect the bead/DNA-pellet. Remove and discard the supernatant.

Tip: *Some of the solution with beads will end up in the cap of the tube. The tube can be tipped or turned upside down, while placed in the magnet, to wash down the beads trapped in the cap.*

5. Add 1 ml **Binding & Wash Buffer** and vortex at room temperature. Collect the bead/DNA-pellet for 30 seconds with the magnet, remove and discard the supernatant.

6. Add 1 ml **Wash Buffer II** and vortex for 5 seconds. Collect the bead/DNA-pellet for 30 seconds with the magnet, remove and discard the supernatant.
Repeat washing step **once** with **Wash Buffer III**.

Attention: ***Wash Buffer III*** *and* ***Elution Buffer*** *is same, therefore during the wash process vortex for 1 second.*

7. Add 100 µl **Elution Buffer (ddH_2O)**, vortex and incubate for 10 minutes at 65 °C in a thermo-mixer and vortex the tube from time to time for the complete resuspension of the pellet.

Tip: *Complete resuspension of the pellet is important to recover high yields of DNA. Repeat mixing (vortex) during the incubation step.*

8. Collect the beads with the magnet and transfer the solution with the eluted DNA to a new clean tube. If the solution is not clear repeat the step.

Tip: *The isolated DNA can be stored at 2-8 °C in a refrigerator, but for a long term storage - 20 °C is recommended.*

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