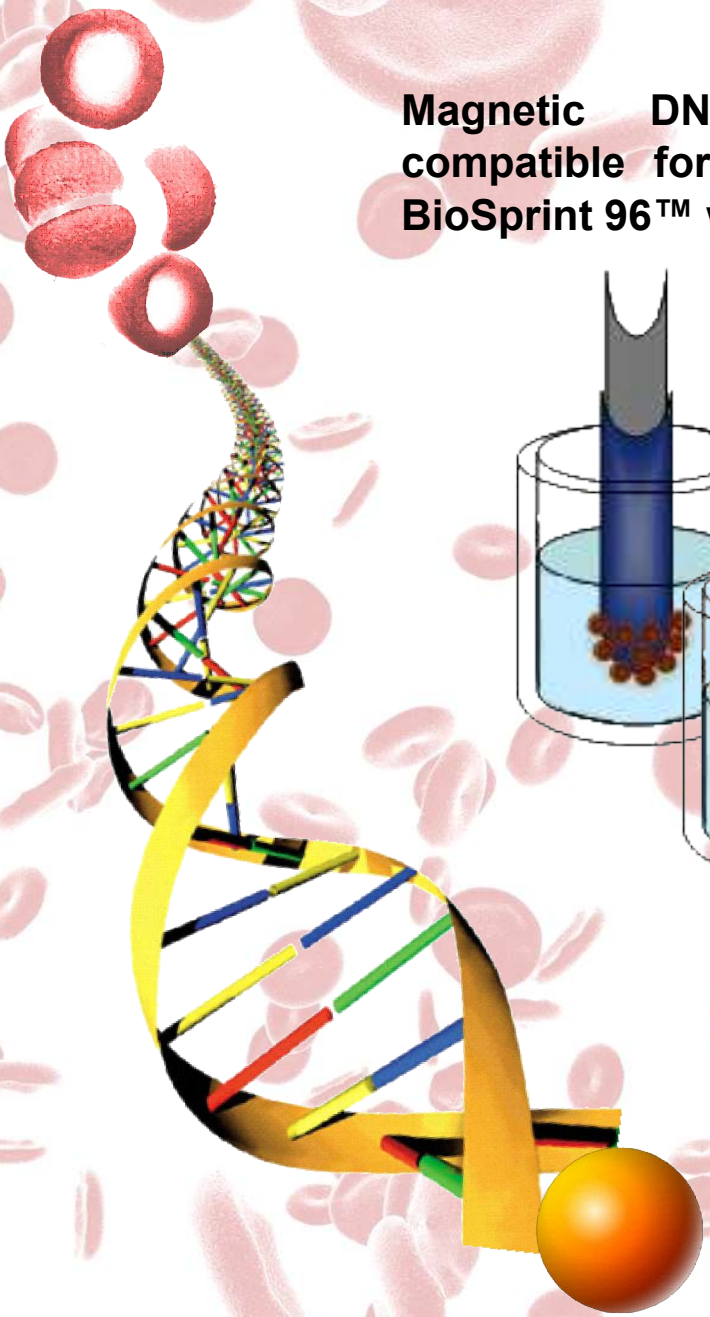
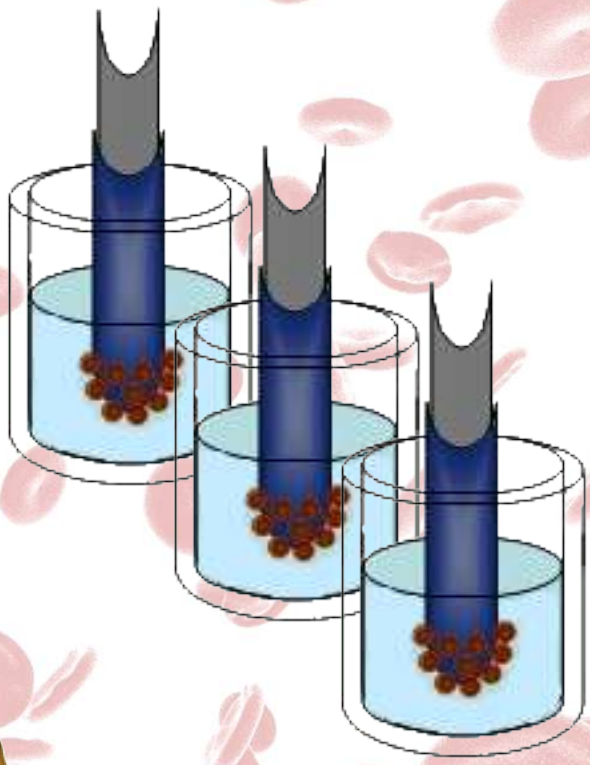
geneMAG-DNA 96 / *Blood*

compatible for KingFisher™ 96 and BioSprint™ 96

Magnetic DNA purification kit compatible for KingFisher 96™ or BioSprint 96™ workstation.





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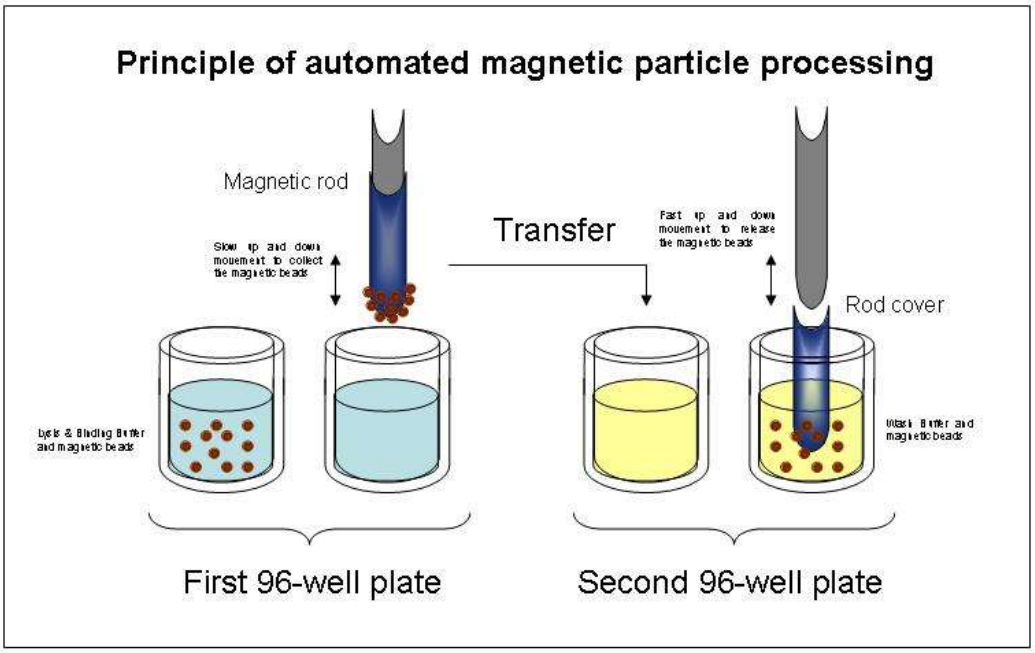
NEW TOOLS IN BIOSCIENCES

The **geneMAG-DNA 96 / *Blood*** kit is a novel, simple and highly efficient tool for isolation of genomic DNA with magnetic silica beads using the KingFisher™96 or BioSprint™ 96 workstations. The DNA can be isolated from blood samples including fresh, frozen, anti-coagulated blood, buffy coat.

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



The magnetic bead processing of KingFisher™ 96 / BioSprint™ 96 workstation

The KingFisher™ 96 workstation is a trademark of Thermo Fisher Scientific.

The BioSprint™ 96 workstation is a trademark of Qiagen.

Products

Kits	Contents	Number of isolations	Price Euro/US$
geneMAG-DNA 96 / Blood (Cat. No.: KF3001-96)	• 80 ml Lysis & Binding Buffer • 200 ml Wash Buffer I • 10 ml SiMAG/KF-DNA Beads	1 x 96 preps per 100 µl blood	185 / 240
geneMAG-DNA 480 / Blood (Cat. No.: KF3001-480)	• 400 ml Lysis & Binding Buffer • 1000 ml Wash Buffer I • 50 ml SiMAG/KF-DNA Beads	5 x 96 preps per 100 µl blood	725 / 942

Reagents and Equipment to be Supplied by the User

- **Wash Buffer II**: 70% ethanol or 70% 2-propanol
- **Elution Buffer:** ddH_2O
- **KingFisher™ 96 / BioSprint™ 96 workstation**
- **Deep well 96-well plates (2,2 ml) squared well**
- **KingFisher™ 96 plate (0,3 ml)**
- **Magnet Head for deep well 96-well plates**

Storage

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

Safety Note

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

This protocol describes the isolation of genomic-DNA from 100µl blood per each well of 96-well plate with the geneMAG-DNA 96 / *Blood* kit using KingFisher™ 96 or BioSprint™ 96 workstation.

Preparation of the deep well 96-well plates (2,2 ml)

First 96-well plate:

1. Add 100 µl blood in each well

2. Add 800 µl **Lysis & Binding Buffer** and 100 µl **SiMAG/KF-DNA.**

Second 96-well plate:

1. Add 1000 µl **Wash Buffer I** in each well

Third 96-well plate:

1. Add 1000 µl **Wash Buffer I** in each well

Fourth 96-well plate:

1. Add 1000 µl **Wash Buffer II** (70% 2-propanol) in each well

Fifth 96-well plate:

1. Add 1000 µl **Wash Buffer II** (70% 2-propanol) in each well

Sixth 96-well plate: Use 96-well plate with max. volume of 0,3 ml

1. Add 100 µl **Elution Buffer** (dH_2O) in each well

Seventh 96-well plate: Parking station!!!!

Settings of the processing times for Lysis- & Binding-, Wash- and Elution steps :

Start the KingFisher™ Software and set the following parameters:

1. Lysis & Binding process (first deep-well plate):
6 minutes with low stirring

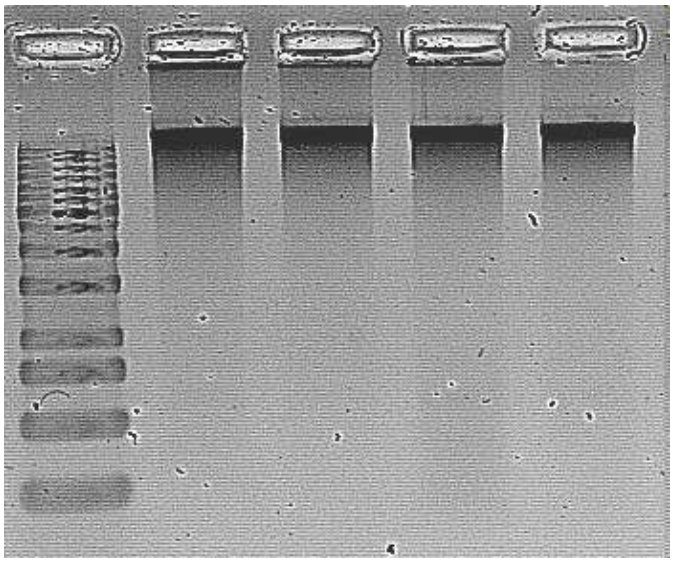
2. Wash process with Wash Buffer I (second deep-well plate):
1 minutes with medium stirring

3. Wash process with Wash Buffer I (third deep-well plate):
1 minutes with medium stirring

4. Wash process with Wash Buffer II (fourth deep-well plate):
1 minutes with medium stirring

5. Wash process with Wash Buffer II (fifth deep-well plate):
1 minutes with medium stirring

6. Elution process with Elution Buffer (dH_2O):
Heat time: 10 minutes with high stirring
Temperature: 80°C



Agarose gel (1%): Analysis of genomic DNA from 100 µl human whole blood. Genomic DNA was purified using the KingFisher™ 96 according to the geneMAG-DNA 96 / *Blood* protocol.
(Data kindly provided by Cengiz Öztürk, Charité, University Hospital of Humboldt-University to Berlin, Germany)

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