

mag Nucleic Acid Purification Kit

Customised kit solutions for blood DNA preparations

Blood samples can vary considerably in quality, and this can lead to wide variations in the consistency and yield of extracted DNA. Pathogen and virus detection, HLA testing, SNP genotyping and animal breeding all require reliable and high-quality sample preparations; [mag™ Nucleic Acid Purification Kits](#) meet these requirements.

mag Nucleic Acid Purification Kits for blood samples

LGC Biosearch Technologies™ is an international supplier of tailor-made DNA extraction kits, and is primarily focused on automated, high-throughput DNA extractions. The mag Nucleic Acid Purification Kit portfolio offers products for all scales of nucleic acid extraction from human and animal blood, ranging from 10 µL to 2 mL of starting material. The mag chemistry is compatible with EDTA, heparin and citrate anticoagulants.

The mag Nucleic Acid Purification Kit solution

- Development of protocols that are customised to your requirements
- No compromises regarding sample materials; lysis conditions can be tailored to customers' requirements
- Volumes of kit components are highly flexible
- Quicker results - speed of extraction can be optimised
- Highly flexible batch sizes
- Compatible with most popular robotic platforms

Advantages

- **Efficient** – extraction of very pure, high molecular weight DNA from blood and FTA cards
- **High quality** – achieve $OD_{260}/OD_{280} \geq 1.8$
- **Easy to automate** – magnetic microparticle handling offers flexibility in automated processing
- **Manual protocols available**
- **Convenient**
- **Delivery time** – within 4 days (depending on your location).

DNA preparation protocol

The mag Nucleic Acid Purification Kits use magnetic separation for the preparation of high-quality nucleic acids from various sample materials such as:

- Animal and plant tissue
- Microorganisms
- Forensic samples
- Blood and other biological fluids.

Superparamagnetic particles coated with mag surface chemistry are used to capture nucleic acids from a sample via a classic polarity-based binding mechanism. The nucleic acid/particle complex is subsequently washed to remove impurities. After washing, the nucleic acid is eluted from the magnetic particles and is ready for use in a wide range of downstream processes. Where the volume of starting material is greater than 300 µL, an additional enrichment step can be performed prior to lysis to enrich the proportion of white blood cells and, in turn, reduce the total starting volume of the sample.



Application areas

Standard protocols are available for the following instruments/applications. Alternatively, Biosearch Technologies can develop bespoke customised solutions for any laboratory setup. Contact our technical specialists for more information.

- 200 µL or 600 µL human blood mag maxi protocol on the KingFisher 96 magnetic particle processor
- 200 µL human blood mag maxi protocol on the Tecan EVO/TeMagS system
- 2 mL human blood mag maxi PLUS protocol on the Hamilton STAR/sep™ 72 x 1.4 system.

Ordering information

Cat no.	Kit	Volume of blood (starting material)	Number of extractions per kit
NAP40401/NAP40410	mag mini kit	10 µL	96/960
NAP40402/NAP40420	mag midi kit	50 µL	96/960
NAP40403/NAP40430	mag maxi kit	200 µL	10/288
NAP40404/NAP40440	mag maxi PLUS kit	2 mL	10/288

All kit components are available to purchase individually.

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