

mag blood kits

Customised kit solutions for blood DNA preparations

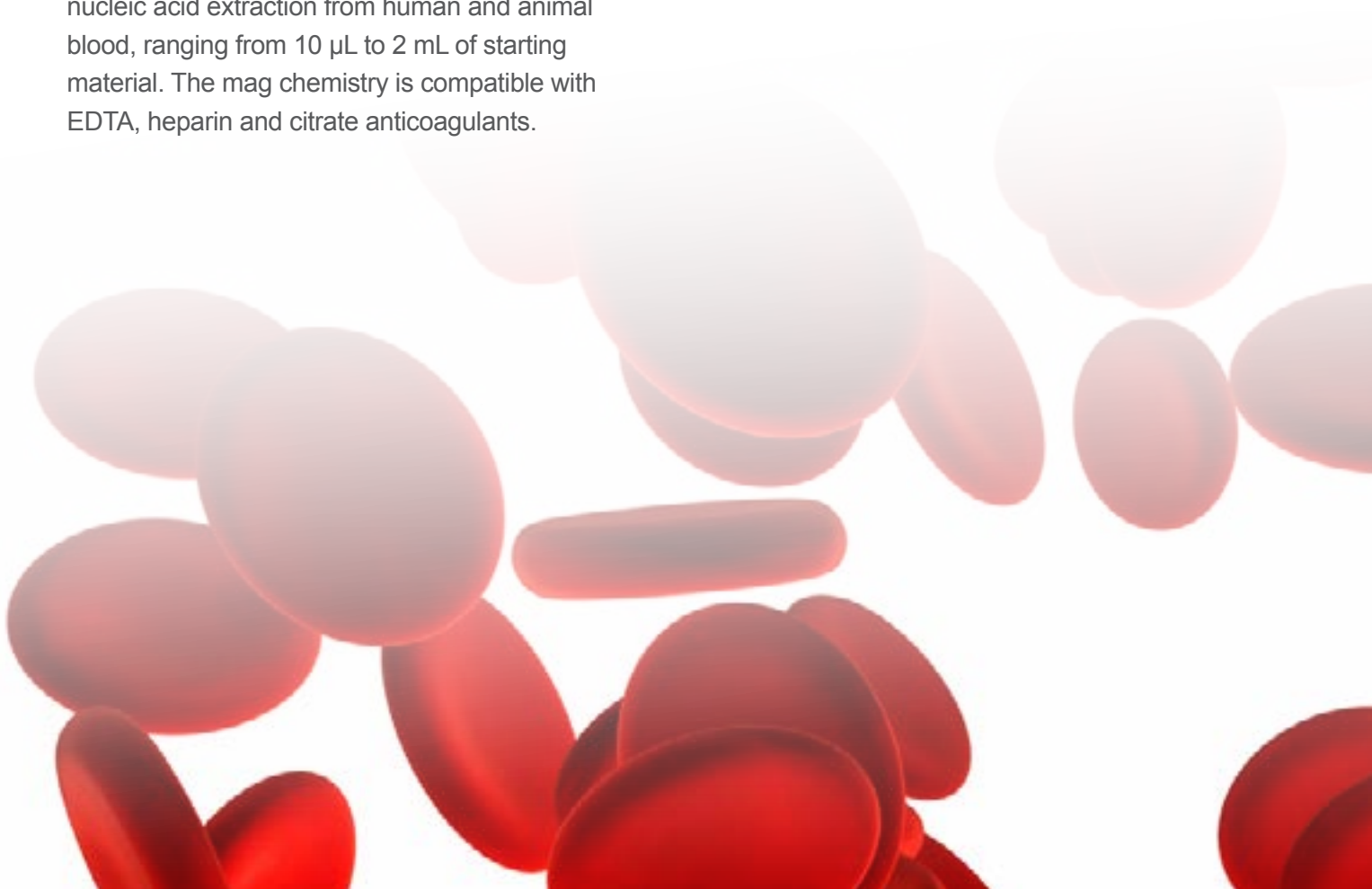
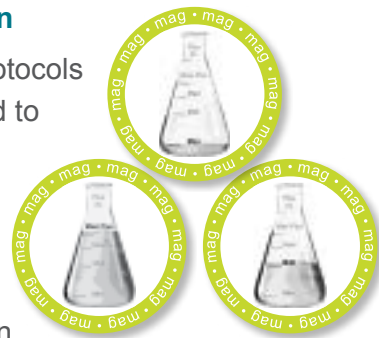
Blood samples can vary considerably in quality, and this can lead to wide variations in the consistency and yield of extracted DNA. Pathogen and virus detection, HLA testing, SNP genotyping and animal breeding all require reliable and high quality sample preparations; mag™ kits meet these requirements.

mag kits for blood samples

LGC is an international supplier of tailor-made DNA extraction kits, and is primarily focused on automated, high-throughput DNA extractions. The mag 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.

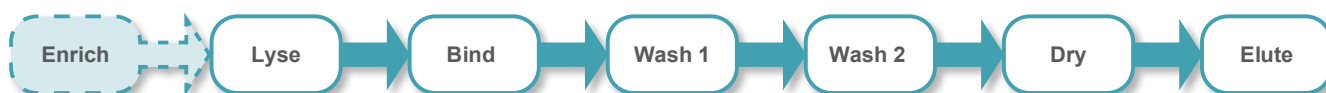
The mag kit solution

- 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.



DNA preparation protocol

The mag kits use magnetic separation for the preparation of nucleic acids. 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, LGC can develop bespoke 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.

Advantages

- **Efficient** – extraction of 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).

Ordering information

Cat. No.	Kit	Volume of blood (starting material)	Number of extractions per kit
40401 / -10	mag mini	10 µL	96 / 960
40404 / -20	mag midi	50 µL	96 / 960
40430	mag maxi	200 µL	288
40440	mag maxi PLUS	2 mL	288

All kit components are available to purchase individually.

For more details please contact your local representative or visit our website.

www.lgcgenomics.com

Germany

LGC
Ostendstr. 25 • TGS Haus 8
12459 Berlin • Germany

Tel: +49 (0)30 5304 2200
Fax: +49 (0)30 5304 2201
Email: info.de@lgcgenomics.com

United Kingdom

LGC
Unit 1-2 Trident Industrial Estate • Pindar Road
Hoddesdon • Herts • EN11 0WZ • UK

Tel: +44 (0)1992 470 757
Fax: +44 (0)1438 900 670
Email: info.uk@lgcgenomics.com

United States

LGC
100 Cummings Center • Suite 420H
Beverly • MA 01915 • USA

Tel: +1 (978) 232 9430
Fax: +1 (978) 232 9435
Email: info.us@lgcgenomics.com