



Roche Applied Science
MagNA Pure LC DNA Isolation Kit
Large Volume

Cat. No. 3 310 515

Speed

Process 32 blood samples of 1000 ml in less than three hours.

Reliability

Isolate genomic DNA of the highest quality and integrity.

Flexibility

Process a variety of sample volumes using your choice of four different protocols.

Kit for the isolation of genomic DNA from blood, blood cells, or culture cells, using the MagNA Pure LC Instrument.

The MagNA Pure LC DNA Isolation Kit – Large Volume contains all necessary reagents ready-to-use for the isolation of high-quality genomic DNA from research samples.

The MagNA Pure LC DNA Isolation Kit – Large Volume is specifically developed to process large volumes of blood (up to 1000 μ l) or culture cells (up to 5×10^6 cells) using the MagNA Pure LC Instrument. The purified high molecular weight DNA is ideally suited for the LightCycler PCR within the PCR Workflow System.

The MagNA Pure LC DNA Isolation Kit – Large Volume is compatible with four different protocols to process blood or cell samples:

- 1. Isolation from 20 – 200 μ l of whole blood**
- 2. Isolation from 300 – 500 μ l of whole blood**
- 3. Isolation from 1000 μ l of whole blood**
- 4. Isolation from up to 5×10^6 culture cells.**

The protocols for the purification process are selected via the MagNA Pure LC Instrument's Software.

Test Principle

The samples are dissolved and simultaneously stabilized via incubation with an optimized buffer that contains potent denaturing agents and proteinase K. After the addition of Magnetic Glass Particles (MGP), the DNA released from the samples is bound to the MGP surface. Unbound substances are removed by several washing steps, then the purified DNA is eluted with a low-salt buffer.

Specifications

Sample volume (blood): 20 – 1000 µl blood

Sample volume (cells): up to 5×10^6 cells

Typical yield*:

• blood: 1 – 30 µg

• cells: 11 – 60 µg

Purity (OD_{260/280}): 1,8 +/- 0,1

* The yields depend on the quality of the blood sample or the cell type used.

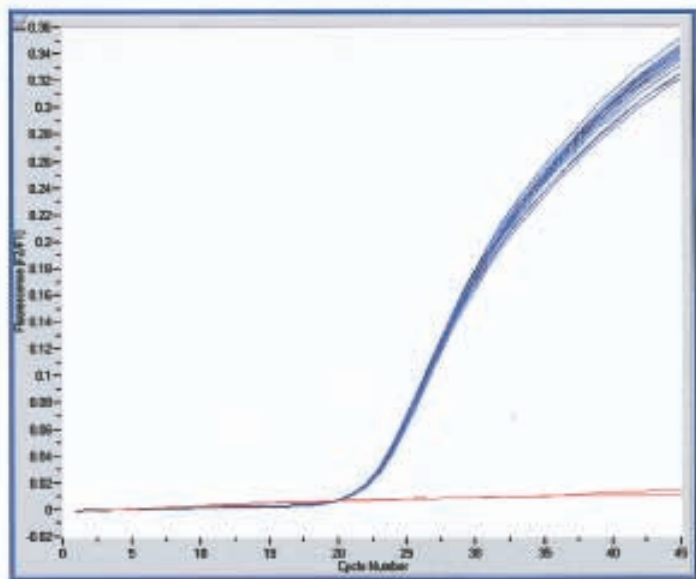


Figure 1: LightCycler PCR targeting Factor V Leiden gene resulted in very low intra-assay variance.

MagNA Pure LC DNA Isolation Kit – Large Volume

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Kit for the isolation of genomic DNA from blood, blood cells, or culture cells, using the MagNA Pure LC Instrument

Kit Contents

1. Wash Buffer I	3 x 100 ml
2. Wash Buffer II	3 x 60 ml
3. Wash Buffer III	2 x 100 ml
4. Lysis Binding Buffer	1 x 70 ml
5. Magnetic Glass Particle Suspension	6 vials
6. Elution Buffer	1 x 100 ml
7. Proteinase K Buffer II	1 x 100 ml
8. Proteinase K	3 vials

The kit contains reagents to process:

- 288 samples of 20 to 200 µl blood or
- 192 samples of 300 to 500 µl blood or
- 96 samples of 1000 µl blood or
- 192 samples of up to 5×10^6 culture cells.



Figure 2: Processing of 16 identical blood samples revealed isolated genomic DNA of the highest reproducibility and yield, in addition to excellent integrity. (Analysis on agarose gel, M: molecular weight marker III)

To place an order or for more information, contact your Roche Applied Science worldwide representative or visit us on the Internet at www.pcr-workflowsystem.com