

GEN^XTRACT Blood DNA Extraction System



2-014



100 extractions



2-8°C

The **GEN^XTRACT Blood** DNA Extraction System is designed to be used for convenient and rapid extraction of DNA from anticoagulated (EDTA/citrate) blood as template for *in vitro* amplification (PCR)

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| 1. Lysis Solution | 200 ml |
| 2. GEN^XTRACT Resin | 20 ml |

Resuspend each time immediately before removing an aliquot.



MATERIALS REQUIRED BUT NOT SUPPLIED

- Microtubes (1.5 ml with screw cap)
- Adjustable micropipettes
- Adjustable microcentrifuge capable of 3,000-12,000 rpm (approx. 1,000-12,000 x g)
- Incubator (e.g. heating block, water bath) capable of 56°C and 98°C (± 2°C)

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ASSAY PROCEDURE

Use fresh or frozen blood with EDTA or citrate anticoagulant; avoid blood containing heparin.

Do not store blood for more than 3 days at ambient temperature or more than 1 week at 2-8°C before use. Blood which has been kept frozen for more than one year, or gone through more than three freeze-thaw cycles is unsuitable to be used in this procedure.

Bring blood samples to room temperature. Mix well by carefully inverting blood collection tubes several times. Repeat mixing each time before withdrawing an aliquot of blood.

Allow Lysis Solution and GEN^XTRACT Resin to reach room temperature.

- Pipette **100 µl blood sample** into a 1.5 ml microtube with screw cap.
- Add **1 ml Lysis Solution**, close tube and mix by inverting several times.
- Let stand for **15 min.** at room temperature.
- Centrifuge for **5 min.** at **3,000 rpm** (approx. 1,000 x g) in a microcentrifuge.
- Remove and discard the upper (top) 1 ml of supernatant.
- Add **1 ml Lysis Solution**, close tube and mix by inverting several times.
- Centrifuge for **5 min.** at **12,000 rpm** (approx. 12,000 x g) in a microcentrifuge.
- Remove and discard the supernatant except for approx. 50 µl of a visible, soft pellet.
- Resuspend GEN^XTRACT Resin by swirling the bottle thoroughly.
- Add **200 µl GEN^XTRACT Resin** to the pellet. Close tube and vortex for 10 sec.
⚠ GEN^XTRACT Resin sediments quickly. Repeat resuspension each time immediately before removing another aliquot.
- Incubate for **20 min.** at **56°C**. Vortex for 10 sec.
- Incubate for **10 min.** at **98°C**. Vortex for 10 sec.
- Centrifuge for **5 min.** at **12,000 rpm** in a microcentrifuge. Cool on ice.

The resulting supernatant contains DNA template suitable for immediate use in PCR.

For further storage, the supernatant should be transferred into a fresh tube and kept refrigerated (2-8°C; up to one week) or frozen at -20°C.