

The **BEST** for Life Science

MagicPure[®] Blood Genomic DNA Kit

Cat. No. EC101

Storage: at room temperature (15°C-25°C) for one year.

Description

MagicPure[®] Blood Genomic DNA Kit provides an easy, fast, and effective method for isolating high-quality DNA. This kit is based on the specific interaction between nucleic acids and magnetic beads in the presence of specially formulated buffer.

MagicPure[®] Blood Genomic DNA Kit is designed for the purification of genomic DNA from (50 µl -250 µl) of fresh or thawed whole blood and can also be used on automated Nucleic acid purification workstations. The isolated DNA is ready for downstream

applications such as PCR, sequencing, enzyme digestion or Southern blotting procedures.

- Simple and fast, no centrifugation required.
- High yield and quality.

Kit Contents

Component	EC101-01/11 (50 rxns)
Binding Buffer 17 (BB17)	18 ml
Clean Buffer 17 (CB17)	50 ml
Wash Buffer 17 (WB17)	12 ml
Elution Buffer (EB)	10 ml
Proteinase K (20 mg/ml)	1 ml
Magnetic Blood Beads	800 µl
Magnetic Stand (16 hole)	1 each/-

Starting material

- Whole blood, short term storage: 2-8°C for up to 1 week; long term storage: -80°C.
- Avoid repeated freezing and thawing of the whole blood (no more than three times) .

Procedures

Before starting, add the below indicated volume of 100% ethanol into the concentrated CB17 and WB17.

Component	EC101
Clean Buffer 17 (CB 17)	50 ml
Wash Buffer 17 (WB 17)	48 ml

All steps are carried out at room temperature. Mix the magnetic beads well by vortexing before use.

- 1. Add 50-250 µl of whole blood sample to a 1.5 ml microcentrifuge tube.
- 2. Add 300 µl of BB17 and 20 µl of Proteinase K into the microcentrifuge tube. Mix well by vortexing.
- 3. Incubate at room temperature for 10 minutes, and vortex 1-2 times during incubation.
- 4. Add 450 μl of 100% isopropanol to the microcentrifuge tube. Mix by vortexing for 10 seconds. Add 15 μl of well-mixed Magnetic Beads into the microcentrifuge tube.
- 5. Vortex the microcentrifuge tube for 1 minute, and then incubate at room temperature for 3 minutes.
- 6. Repeat Step 5 three times.



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7. Place the microcentrifuge tubes onto the magnetic stand until the beads are pelleted against the magnet. Remove as much supernatant as possible, be careful not to remove any beads.

(Suggestions for beads separation: after placing the microcentrifuge tubes onto the magnetic stand, gently turn the tubes left and right to attach the beads to the magnet, then invert the magnetic stand 2-3 times to 'rinse' the tube cap with the supernatant. Incubate at room temperature for 30 seconds.)

- 8. Remove the microcentrifuge tubes from the magnetic stand, add 800 μl of CB17 (make sure ethanol has been added) to the microcentrifuge tubes, then vortex the microcentrifuge tubes for 2 minutes. Place the microcentrifuge tubes onto the magnetic stand, and then discard the supernatant as in Step 7.
- 9. Repeat Step 8 one time.
- 10. Remove the microcentrifuge tubes from the magnetic stand, add 500 µl of WB17 (make sure ethanol has been added) to the microcentrifuge tubes, then vortex the microcentrifuge tubes for 2 minutes. Place the microcentrifuge tubes onto the magnetic stand, and then discard the supernatant as in Step 7.
- 11. Repeat Step 10 one time.
- 12. Air-dry the uncapped beads on the magnetic stand for 10-15 minutes.
- 13. Remove the microcentrifuge tubes from the magnetic stand, add 100-200 µl of EB to the microcentrifuge tubes. Mix gently by pipetting up and down several times to resuspend the beads and incubate at 56°C for 10 minutes. Mix gently by pipetting up and down once or twice during incubation.
- 14. Place the microcentrifuge tubes onto the magnetic stand, separate beads as in Step 7. Carefully transfer the supernatant into a clean 1.5 ml tube. Avoid collecting beads during the transfer, and store the purified DNA at -20°C.

Notes

- Use fresh whole blood sample and avoid repeated thawing and freezing.
- Beads must be mixed well before using.
- Use sterile tubes and pipette tips to avoid the DNase contamination.

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