# DNA Product Purification Kit (Magnetic Bead Method)

**Cat No.:** DM1300
**Package:** 50T/ 100T
**Storage:** 2-8℃

| Component | 50T | 100T | Storage |
|---|---|---|---|
| Solution I | 6mL | 12mL | RT |
| Wash Buffer | 15mL | 15mL*2 | RT |
| Elution Buffer | 4mL | 8mL | RT |
| Magnetic Bead | 1mL | 2mL | 2-8℃ Do not freeze |
| Instruction | 1 | 1 | - |

**Product Description:**

The magnetic bead DNA purification kit enables the magnetic beads to specifically recognize and efficiently bind with DNA molecules in a unique buffer system, and can isolate DNA from the sample under the action of external magnetic field force.

**Advantages:**

DNA extraction by magnetic bead method has incomparable advantages to the traditional column method. Completely get rid of the manual operation process of repeated centrifugation in the process of DNA extraction by column method, which has the advantages of simple operation, short time, safe and non-toxic, and can complete automatic extraction and so on. And importantly, compared with the traditional column method, the DNA extracted by the magnetic bead method has high purity and large concentration.

**Operation steps (for reference only):**

*Before use, please add absolute ethanol to the rinse solution, and refer to the label on the bottle body (45mL of absolute ethanol should be added to each bottle separately).*

1. Add 100μL of sample to 10μL (if the sample volume is much less than 100μL, add sterilized deionized water to 100μL), add reagent I with equal volume of sample quantity to be recovered, and mix with a pipette gun.

Add 20μL of magnetic beads to the above solution (mix with the front vortex oscillator) and vortex shake them for 15 seconds.

2. After standing at room temperature for 10 minutes, it is placed in a magnetic frame. After the magnetic beads are fully adsorbed and the solution is clarified, suck out the residual liquid along the pipe wall with a pipette gun. Pay attention not to absorb the magnetic beads.

3. Add 500μL of rinsing solution (use with absolute ethanol) and mix with a vortex oscillator. The centrifuge tube is placed in the magnetic frame. After the magnetic beads are fully adsorbed in the



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magnetic frame, suck and absorb the residual fluid with a pipette gun along the tube wall. Be careful not to absorb the magnetic beads.

4. Add 600μL of rinsing solution (use with absolute ethanol) and mix well with a vortex oscillator. Place the centrifuge tube in the magnetic frame. After the magnetic beads are completely adsorbed to the magnetic frame, remove the liquid along the tube wall with a pipete gun. Be careful not to absorb the magnetic beads.

5. Open the lid of the centrifuge tube, set and dry at room temperature for 5-10 minutes. Just observe the liquid volatilization of the wall and bottom and the smooth surface of the magnetic beads. Pay attention to the drying time should not be too long, which will make the magnetic beads not easy to be eluted.

6. Preheat the eluate in a 55℃ water bath, remove the centrifuge tube from the magnetic frame, place it on the ordinary centrifugal tube rack, add the eluate 20-50μL, blow the magnetic beads with the eluate with a pipette gun, incubate at room temperature for 5 minutes, place the centrifugal tube in the magnetic frame, suck the solution through the tube wall with the pipette gun into the magnetic beads. The resulting solution is purified DNA sample and stored in-20℃.

**Note:**

1. The magnetic beads before use with a scroll oscillator.
2. The magnetic beads are stored in a 2-8℃ refrigerator.
3. Do not freeze the magnetic beads and leave them in a dry state.
4. If white precipitation appears at the bottle mouth of reagent I, it is a normal phenomenon and does not affect the effect.