

Sample Preparation



1. Add 1 volume of **Sample** (up to 100 μ L) in a 1.5 mL microcentrifuge tube.
2. Add 2 volumes of **Binding Buffer** (up to 200 μ L)
3. Vortex.

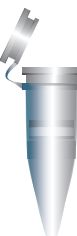
→ Close the Binding Buffer bottle immediately after usage.

Binding



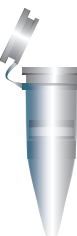
4. Place a Smart Pure column into a collection tube (2mL).
5. Apply the **Mixture** to the SmartPure column.
6. Centrifuge for 1 min at 6 000 \times g.
7. Discard the flow-through.

Washing



8. Add 650 μ L of **Wash Buffer**
9. Centrifuge for 30-60 sec at 12 000 \times g.
10. Discard the flow-through.
11. Repeat washing step once.
12. Centrifuge 1 min at 12 000 \times g to remove residual liquid.

Elution



13. Transfer the SmartPure column to a sterile 1.5 mL microcentrifuge tube.
14. Add 50 μ L of **Elution Buffer**, ddH₂O or TE Buffer to the SmartPure column.
15. Incubate 1 min at room temperature.

Purified DNA



16. Centrifuge 1 min at 12 000 \times g to recover your purified DNA fragments in the microcentrifuge tube.

→ The purified DNA fragment can be used directly or stored at -20°C for long term storage.

The SmartPure PCR Kit ensures an easy, fast and effective purification of DNA fragments from PCR or enzymatic reaction.

First use

- Add required ethanol to the SmartPure Wash Buffer (see label on the bottle) and mix well.

Kit components (100 preps)

Component	Amount
SmartPure Binding Buffer	20 mL
SmartPure Wash Buffer	30 mL
SmartPure Elution Buffer	20 mL
SmartPure Column	100

Material not supplied

- Sterile 1.5 mL microcentrifuge tubes
- 10/100/1000 µL tips
- Microcentrifuge (14 000 x g)
- Vortex mixer
- Absolute ethanol

Technical Information

Column Volume	750 µL
Sample Volume	up to 100 µL/reaction
DNA size range	from 60 bp to 10 kb
Elution Recovery	≥ 99%
Working time	6 min/2 samples

Shipping & Storage conditions

The SmartPure PCR Kit is shipped at room temperature. The Kit is stable for 18 months if stored in a dry environment at room temperature (15°C-25°C).

Troubleshooting

No recovery

Please check whether the ethanol had been added to the Wash Buffer bottle.

Low recovery

Incubate the Elution Buffer at 30–60°C, it may increase the yields.

Absorbance problem

Please use the Elution Buffer to adjust zero value and dilute the sample.

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