PrimePrep™ Gel Purification Kit

Introduction

PrimePrep™ Gel Purification Kit offer simple, rapid and cost-effective method for purification from agarose gel in TAE or TBE buffer system.
The purified DNA can be directly used in ligation, sequencing and other downstream applications.

Kit Components

Cat. No. / Reagents	K-8000 (50 prep.)	K-8001 (200 prep.)
Spin column	50 ea	50ea x 4
Buffer Gel-B	60 ml (30 ml x 2)	240 ml (80 ml x 3)
Buffer PW	10 ml	30 ml (15 ml x 2)
Buffer PE	10 ml	20 ml

Before you begin

▶ **Add ethanol to Buffer PW before use.**
→ Add 40 ml (K-8001: 60 ml) of absolute ethanol before use.

▶ **Isopropanol (100%) and a heating block or water bath at 50℃ are required.**

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Experimental Protocol

1. Excise the DNA fragment from the agarose gel with a sharp scalpel or razor blade.
Minimize gel volume by cutting gel slice as small as possible.

2. Weigh the gel slice in a microcentrifuge tube. Add 3 volumes of Buffer Gel-B to 1 volume of gel.
If the 100 mg of agarose gel slice, add 300 ㎕ of Buffer Gel-B.
If more than 1.5% agarose gel, add 6 volumes of Buffer Gel-B.

3. Incubate at 50℃ for 10 min (or until the gel slice has completely dissolved). Invert the tube every 2-3 min to help dissolve gel.

4. Add 1 gel volume isopropanol to the sample and mix immediately by using pipett or inverting.

5. Transfer the sample to the Spin column.

6. Centrifuge at 13,000 rpm for 1 min.
Discard the flow-through and re-insert the Spin column to the collection tube.
For sample volumes > 800 ㎕, load and spin again.

7. (Optional step) Add 500 ㎕ of Buffer Gel-B to the Spin column and centrifuge at 13,000 rpm for 1 min. Discard flow-through and re-insert the Spin column to the collection tube.
If DNA will subsequently be used for sequencing, in vitro transcription, or microinjection.

8. Add 700 ㎕ Buffer PW to Spin column and centrifuge at 13,000 rpm for 30 sec. Discard flow-through and re-inserting the Spin column to the collection tube.

9. Centrifuge once more at 13,000 rpm for 1 min to remove residual wash buffer.

10. Place the spin column into a clean 1.5 ml microcentrifuge tube.
The clean 1.5 ml microcentrifuge tube is not provided.

11. To elute DNA, add 50 ㎕ of Buffer PE or deionized distilled water to the center of the membrane in the Spin column, let the column stand for 1 min, and then centrifuge at 13,000 rpm for 1 min.
For increased DNA concentration, add 30 ㎕ Buffer PE to the center of the membrane in the Spin column, let the column stand for 1 min, and then centrifuge for 1 min.